

```
; ORGANISM: Myxococcus xanthus
US-09-902-540-13545

Query Match
Best Local Similarity 8.4%; Score 84; DB 4; Length 612;
Matches 53; Conservative 31; Mismatches 64; Indels 74; Gaps 13;

QY 30 EEAEIOEVLOE-----TLKSLGRYRLKQKPRKOB--NANAV---LLELLED--- 71
DB 297 ELGEVEAVLQYDPDVRDAVALVREDTQARRLVGVVQAELDASALRSFKERLPDHLV 356
QY 72 -----TDVSAIPSEVOGKGVWVKVIFKTPNQDTE-----FLE 103
DB 357 PAAFVALDALPLSPGKVDRAALPAPDAARGNAKV--FTEPRTEAEKALAALMTQVLGVE 415
QY 104 RLNL---FLEKQGVSGM-----FRALGOEALSPATVPCISPELLAHLG----- 146
DB 416 RVSLHDHFFELGGDSILGIQIVSRKALGLE--LEPAML--FERQTLVELAAAAATAKAGT 472
QY 147 --QAMAHAPQPLPMRYRKLRFVSGS--AVPAPEESFEVWLE 185
DB 473 AEQGLVEGVPVLTMQ-----RIFDEWALPQPHYINLAAVLE 510

RESULT 9
US-09-134-000C-5974
; Sequence 5974, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5974
; LENGTH: 547
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5974

Query Match
Best Local Similarity 8.3%; Score 82.5; DB 4; Length 547;
Matches 44; Conservative 38; Mismatches 65; Indels 53; Gaps 9;

QY 5 LEWV--CRIMSVDBQKSLMVTGI--PAD-----PEEAE-----IQEVLOETLKSILGRY 48
DB 310 LELKKNYRLNSDYQLAIVGVTKPENETHIRYQQAEGQLIFQWLKEQLPEILPDVALF 369
QY 49 RLQK-----IFRKOENANAVLLELLEDTVSAIPSEVQ--GKGGVWVKVIFKTPNQDTEFL 102
DB 370 KLNQNKSLIFQSKNDHLMILQNLAEQLQALPITIRFALGNAYENLEDLPNSVIEAS 429
QY 103 ERLNLFLEKSGQTVSGMFRALGOEALSPATVPCISPELLAHL---LG-----Q 147
DB 430 STLEASL-----HAQKPAIVQLFHPKGLAGLFEKIGTEDVEYFCQQQLK 473
QY 148 AMAHAPQPLPMRYRKLRFV 167
DB 474 ELAYPTPTQLERKRLKVF 493

RESULT 10
US-09-248-796A-16474
; Sequence 16474, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
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; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 16474
; LENGTH: 285
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-16474

Query Match
Best Local Similarity 8.2%; Score 81.5; DB 4; Length 285;
Matches 51; Conservative 37; Mismatches 62; Indels 93; Gaps 11;

QY 26 PADFERAEIOEVLOQ--ETLKSIL--GRY-----RLLGKIFRKOENANAVLLELLEDTD 73
DB 32 PKGFEKAAVGDILQSRETPKSITGRFAPLKIQNSWQLLVRSFDSFCGNPAIVTTVIE--P 89
QY 74 VSAIPSEVOGKGVWVKVIFKTPNQD-----TEFLERLNLFL-----LSP 130
DB 90 VNADPSKIAS---YQVFEDAADKADCAPSYALQFGSDLTFTVTAEMYLWAPLLDQGYV 145
QY 110 -----EKEGQTVSGMFR-----LGQEA-----LSP 130
DB 146 VSPDYEGPKLFTTIGKQSGQAVLNSIRATLKSKITNIKEDAKVWVGSGGSLAGWAA 205
QY 131 ATPVCISPELLAHLQAMAHAPQPLPMRYRKLRY-----FSGSAVPAPPEESF 180
DB 206 ALOPSYAPBELSSLLGCCLRWNNYPNLLPHKQLMVLVYQELWQMPWVGANEYPESQS-- 264
QY 181 EVW 183
DB 265 -IW 266

RESULT 11
US-09-328-352-7656
; Sequence 7656, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7656
; LENGTH: 580
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-7656

Query Match
Best Local Similarity 8.2%; Score 81.5; DB 4; Length 580;
Matches 36; Conservative 22; Mismatches 58; Indels 27; Gaps 5;

QY 30 EEAEIOEVLOETLKSILGR-----YRL--LGKIFRKOENANAVLLELLEDTVS 75
DB 248 EQGTAEOVLEQPKDVYTRALLYCRPQMSORPRLPVTSDFMROE--NNILVE--QSFDS 303
QY 76 AIPSEVOGKGVWVKVIFKTPNQDTEFLERLNLFLFLEKEGQTVSGM-----FRALGOE 126
DB 304 EIPERKRGNGDEQIIILEVKDLKCKSPYRKGLFGKEFQAVKGSFKLAKGKTGLGVGES 363
QY 127 ALSPATVPCISPELLAHLGQAM 149
DB 364 GSGKTTVGLLMLRLHQAOSGQAL 386
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:35:24 ; Search time 14.704 Seconds

(without alignments)  
989.972 Million cell updates/sec

Title: US-10-037-860-7

Perfect score: 996

Sequence: 1 PLALLEDWCRIMSVDEQKSL.....EESFEVWLEQATEIVKEMP 195

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

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2: /cgn2\_6/ptodata/1/iaa/5B COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pep.\*  
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5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	996	100.0	195	3	US-09-189-527-7
2	443.5	44.5	462	3	US-09-189-527-13
3	441	44.3	329	3	US-09-189-527-4
4	87.5	8.8	311	2	US-08-318-837-9
5	87.5	8.8	3838	4	US-09-949-016-10853
6	84.5	8.5	520	4	US-09-792-024-121
7	84.5	8.5	527	4	US-09-248-796A-15917
8	84	8.4	612	4	US-09-902-540-13545
9	82.5	8.3	547	4	US-09-134-000C-5974
10	81.5	8.2	285	4	US-09-248-796A-16474
11	81.5	8.2	580	4	US-09-328-352-7656
12	81	8.1	1442	4	US-09-902-540-9777
13	80.5	8.1	136	4	US-09-252-991A-31474
14	80.5	8.1	270	2	US-08-852-743-5
15	80.5	8.1	270	3	US-09-185-370-5
16	80.5	8.1	385	4	US-09-971-020A-3
17	80.5	8.1	487	2	US-08-712-709-8
18	80.5	8.1	487	3	US-09-111-444-8
19	80.5	8.1	487	3	US-09-541-228-8
20	80	8.0	375	4	US-09-328-352-7783
21	80	8.0	430	4	US-09-949-016-10720
22	79	7.9	258	4	US-09-252-991A-24184
23	78.5	7.9	316	1	US-08-403-634-4
24	78.5	7.9	316	3	US-08-403-634-31
25	78.5	7.9	316	3	US-08-913-441B-4
26	78.5	7.9	316	3	US-08-913-441B-31
27	78.5	7.9	316	4	US-09-571-985C-4

Sequence 31, Appl  
Sequence 52, Appl  
Sequence 52, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 1, Appl  
Sequence 6427, Ap  
Sequence 9445, Ap  
Sequence 2, Appl  
Sequence 29636, A  
Sequence 323, App  
Sequence 10432, A  
Sequence 12849, A  
Sequence 10724, A  
Sequence 30106, A  
Sequence 193, App  
Sequence 193, App

28 78.5 7.9 316 4 US-09-571-985C-31  
29 78.5 7.9 445 3 US-09-457-046B-52  
30 78.5 7.9 445 4 US-09-866-570B-52  
31 78.5 7.9 745 1 US-08-136-277-2  
32 78.5 7.9 745 3 US-08-479-403-2  
33 78.5 7.9 745 3 US-08-835-734-2  
34 77.5 7.8 1657 1 US-08-287-959-1  
35 77.5 7.8 1657 4 US-09-949-016-6427  
36 77.5 7.8 1678 4 US-09-949-016-9445  
37 77.5 7.8 1805 1 US-07-853-913-2  
38 77 7.7 473 4 US-09-252-991A-29636  
39 77 7.7 542 4 US-09-489-847-323  
40 77 7.7 910 4 US-09-902-540-10432  
41 76 7.6 248 4 US-09-489-039A-12849  
42 76 7.6 742 4 US-09-949-016-10724  
43 76 7.6 759 4 US-09-252-991A-30106  
44 75.5 7.6 475 4 US-09-370-838-193  
45 75.5 7.6 475 4 US-09-854-133-193

#### ALIGNMENTS

RESULT 1  
US-09-189-527-7  
; Sequence 7, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 195  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-7

Query Match 100.0%; Score 996; DB 3; Length 195;  
Best Local Similarity 100.0%; Pred. No. 1.8e-98;  
Matches 195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PLALLEDWCRIMSVDEQKSLMTVTGIPADFEAEIQEVLOETLSLGRYLLGKIFRKQEN 60  
Db 1 PLALLEDWCRIMSVDEQKSLMTVTGIPADFEAEIQEVLOETLSLGRYLLGKIFRKQEN 60

Qy 61 ANAVLELLEDTDVSAIPSEVQKGGVWKVIFKTPNQDTEFLERLNLFLKEGQTVSGMF 120  
Db 61 ANAVLELLEDTDVSAIPSEVQKGGVWKVIFKTPNQDTEFLERLNLFLKEGQTVSGMF 120

Qy 121 RALGQALSPATVPCISPELLAHLHLCQAMAHAPQPLPMRYRKLRFVSGSVPAPPEESF 180  
Db 121 RALGQALSPATVPCISPELLAHLHLCQAMAHAPQPLPMRYRKLRFVSGSVPAPPEESF 180

Qy 181 EWLQEAETIVKEMP 195  
Db 181 EWLQEAETIVKEMP 195

RESULT 2  
US-09-189-527-13  
; Sequence 13, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld



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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-74

Query Match
Best Local Similarity 50.6%; Score 874.5; DB 10; Length 312;
Matches 175; Conservative 53; Mismatches 78; Indels 7; Gaps 5;

QY 1 MAMTLLEDWCRGMDVNSQRTLLVWGIPVNCDEAIEBETLQAAM-PQVSYRMGLRMEFWREE 59
Db 1 MTLRLLEDWCRGMDVNSQRTLLVWGIPVNCDEAIEBETLQAAM-PQVSYRMGLRMEFWREE 60
QY 60 NAKAALLELTGAVDYAAIPREMPGKGVWVLPKPTSDAEFLERLHLFLAREGWTVDV 119
Db 61 NRKVALVLTGAVDYAAIPREMPGKGVWVLPKPTSDAEFLERLHLFLAREGWTVDV 120
QY 120 ARVLGFQNPPTTPGPEMPAEMLNLY--ILDNVIOPLVESIWYKRLTLFSGKGHPRAWRG 175
Db 121 SRALGHENGSLDPEQGMIPEMWAPMLAQALE-ALQPALQCLKYKURVFGSGRESPGEE 179
QY 176 NFDPMLEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALRQ 235
Db 180 EFGWFWHTTQMIKAWQVDEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALRQ 239
QY 236 VFGSVSSRDAQIKFLNTYQNPGEKLSAYVIRLEPLQKVEKGAIDKONVNOARLEQVI 295
Db 240 VFGVTDNPRELQVLYTTQKDEKLSAYVIRLEPLQKVEKGAIDKONVNOARLEQVI 299
QY 296 AGANHSAGAIRROL 308
Db 300 AGAVHK-TIRREL 311

RESULT 14
US-10-504-329-3
; Sequence 3, Application US/10504329
; Publication No. US20050106569A1
; GENERAL INFORMATION:
; APPLICANT: Evotec NeuroSciences GmbH
; TITLE OF INVENTION: Diagnostic and therapeutic use of MA onconeural
; FILE REFERENCE: G30475wo ME/BM
; CURRENT FILING DATE: 2004-08-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-504-329-3

Query Match
Best Local Similarity 44.6%; Score 770.5; DB 17; Length 364;
Matches 158; Conservative 65; Mismatches 96; Indels 13; Gaps 5;

QY 1 MAMTLLEDWCRGMDVNSQRTLLVWGIPVNCDEAIEBETLQAAM-PQVSYRMGLRMEFWREE 59
Db 1 MALALLEDCRIMSVEQKSLMTWGIPTADFEAEIQLVETLKLGRYLLGKIFPKQE 60
QY 60 NAKAALLELTGAVDYAAIPREMPGKGVWVLPKPTSDAEFLERLHLFLAREGWTVDV 119
Db 61 NANAALLELTGAVDYAAIPREMPGKGVWVLPKPTSDAEFLERLHLFLAREGWTVDV 120
QY 120 ARVLGFQNPPTTPGPEMPAEMLNLY--ILDNVIOPLVESIWYKRLTLFSGKGHPRAWRG 175
Db 121 FRALGQGVSPATVPCISPELLAHLQANMAHAQPLL-PMYRKLRVFGSGSAVPAPEE 179
QY 176 NFDPMLEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALRQ 235
Db 180 SFEWLEQATEIVKEMPTAEKRWLAESLRGPAADVIRILKSNNPATTTAECLKALRQ 239
QY 236 VFGSVSSRDAQIKFLNTYQNPGEKLSAYVIRLEPLQKVEKGAIDKONVNOARLEQVI 295

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-037-860-13

Query Match
Best Local Similarity 44.3%; Score 766.5; DB 13; Length 463;
Matches 157; Conservative 50; Mismatches 103; Indels 3; Gaps 2;

QY 1 MAMTLLEDWCRGMDVNSQRTLLVWGIPVNCDEAIEBETLQAAM-PQVSYRMGLRMEFWREE 59
Db 1 MPTLLQDWCGRGEHLNTRRCMLILGIPEDCGDEFEETLQEAACRHLGRYRVIGRMFREE 60
QY 60 NAKAALLELTGAVDYAAIPREMPGKGVWVLPKPTSDAEFLERLHLFLAREGWTVDV 119
Db 61 NAKAALLELTGAVDYAAIPREMPGKGVWVLPKPTSDAEFLERLHLFLAREGWTVDV 120
QY 120 ARVLGFQNPPTTPGPEMPAEMLNLY--ILDNVIOPLVESIWYKRLTLFSGKGHPRAWRG 177
Db 121 NRVLGSDTNCSPRVTTISPEFTWATLGAAVQPLLEQMLYRELKRVFSGNTTISPGALAF 180
QY 178 DPWLEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALRQ 237
Db 181 DAWLEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALRQ 240
QY 238 GSVSSRDAQIKFLNTYQNPGEKLSAYVIRLEPLQKVEKGAIDKONVNOARLEQVI 297
Db 241 GPVESHKAQVLCAYQAEKGVSVFVLRLEPLQRAVENNVSRNVNQTLEKRVLSG 300
QY 298 ANHSAGAIRROL 310
Db 301 ATLPDKLRDKKL 313

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; CURRENT FILING DATE: 2005-02-02
; PRIOR APPLICATION NUMBER: US/09/969,680
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 112301CD1
US-11-048-692-1

Query Match      51.3%; Score 887.5; DB 20; Length 351;
Best Local Similarity 55.4%; Pred. No. 6.9e-78;
Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;

Qy 1 MAMTLLDWCRCGMDVNSQRTLLVWGIPVNCDEABIEETLQAAM-PQVSYRMILGRMFWRRE 59
Db 1 MTLRLLEDWCRCGMDMNPRAKLLIAGISQSCSVAIEEALQAGLAPLGEYRLLRGMRFRDE 60

Qy 60 NAKAALLELTGAVDYAAIPREMPGKGWVKVLFKPPTSDAEFLERLHLFLAREGWTVDV 119
Db 61 NRKVALVGLTAETSHALVPKEIPKGGIWRVIFKPPDPDNTFLSRNLEFLAGSGMTVGEL 120

Qy 120 ARVLGFQNP--PTPG--PMPAEMLNLYILDNVIQPLVESIWYKRLTLFSGKGHPRAWRG 175
Db 121 SRALGHENGSLDPQEGMIPEMWPMLAQALE-ALQPALQCLKYKLRVFSGRESPEPGE 179

Qy 176 NFDPMLEHTNEVLVEQVSDVEKRRRLMESLRGPAADVIRILKSNPATTATCLKALEQ 235
Db 180 EFGRMFHTTQMICKAWQVDPVEKRRRLLESIRGPAADVIRVLKINNPLITVDECLQALE 239

Qy 236 VFGSVESRDQAQIKFLNTYQNPGEKLSAYVIRLEPLLOKVEKGATDKONVNOARLEQVI 295
Db 240 VFGVTDPNRELQVKYLTYYQKDEKLSAYVIRLEPLLOKLVQRGATERDAVNOARLDQVI 299

Qy 296 AGANHSAGAIRQLMTGAGBGP 318
Db 300 AGAVHK-TIRRELNPEDGPAPG 321

RESULT 12
US-09-804-014A-73
; Sequence 73, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 74
; LENGTH: 312

Query Match      50.6%; Score 874.5; DB 10; Length 312;
Best Local Similarity 55.9%; Pred. No. 1.1e-76;
Matches 175; Conservative 53; Mismatches 78; Indels 7; Gaps 5;

Qy 1 MAMTLLDWCRCGMDVNSQRTLLVWGIPVNCDEABIEETLQAAM-PQVSYRMILGRMFWRRE 59
Db 1 MTLRLLEDWCRCGMDMNPRAKLLIAGISQSCSVAIEEALQAGLAPLGEYRLLRGMRFRDE 60

Qy 60 NAKAALLELTGAVDYAAIPREMPGKGWVKVLFKPPTSDAEFLERLHLFLAREGWTVDV 119
Db 61 NRKVALVGLTAETSHALVPKEIPKGGIWRVIFKPPDPDNTFLSRNLEFLAGSGMTVGEL 120

Qy 120 ARVLGFQNP--PTPG--PMPAEMLNLYILDNVIQPLVESIWYKRLTLFSGKGHPRAWRG 175
Db 121 SRALGHENGSLDPQEGMIPEMWPMLAQALE-ALQPALQCLKYKLRVFSGRESPEPGE 179

Qy 176 NFDPMLEHTNEVLVEQVSDVEKRRRLMESLRGPAADVIRILKSNPATTATCLKALEQ 235
Db 180 EFGRMFHTTQMICKAWQVDPVEKRRRLLESIRGPAADVIRVLKINNPLITVDECLQALE 239

Qy 236 VFGSVESRDQAQIKFLNTYQNPGEKLSAYVIRLEPLLOKVEKGATDKONVNOARLEQVI 295
Db 240 VFGVTDPNRELQVKYLTYYQKDEKLSAYVIRLEPLLOKLVQRGATERDAVNOARLDQVI 299

Qy 296 AGANHSAGAIRQL 308
Db 300 AGAVHK-TIRREL 311

RESULT 13
US-09-804-014A-74
; Sequence 74, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 74
; LENGTH: 312
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; PRIOR APPLICATION NUMBER: 60/189,140  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/190,401  
 ; PRIOR FILING DATE: 2000-03-17  
 ; PRIOR APPLICATION NUMBER: 60/190,231  
 ; PRIOR FILING DATE: 2000-03-17  
 ; NUMBER OF SEQ ID NOS: 75  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 39  
 ; LENGTH: 321  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-804-014A-39  
  
 Query Match 51.3%; Score 887.5; DB 10; Length 321;  
 Best Local Similarity 55.4%; Pred. No. 6e-78;  
 Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;  
  
 Qy 1 MAMTLLDWCRCGMDVNSQRTLLVWGI PVNCD EAEIETLQAA M-POVSYRMLGRMFWR EE 59  
 Db 1 MTLRLLEDWCRCGMDNPRKALLIAGISQSCSVAIEEALQAGLAPLGEYLLGRMFRDE 60  
 Qy 60 NAKAALLELTGAVDYAAI PREMPGKG VVWVLFK PPTSDAEFLERLHLFLAREGWTVDV 119  
 Db 61 NRKVALVGLTAETSHALVPKEIPGKGIWRVIFKPPDPNTFLSRLNEFLAGEGTVGEL 120  
 Qy 120 ARVLGFQNP T--PTPG--PMPAEMLYILDNVIQPLVESIWKRLTLFSGKGHPRAWRG 175  
 Db 121 SRALGHENGSLDPDQGMIPENWAPMLAQALE-ALQPALQCLKYKLRVFSGRESPEGEE 179  
 Qy 176 NFDPLWLEHTNEVL EEWQSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQ 235  
 Db 180 EFGRMFHTTQMIKAWQVPDVEKRRRLLESRGPDALDVRVLKINNPLITVDECLQALEE 239  
 Qy 236 VFGSVESRDAQIKFLNTYQNFGEKLSAYVIRLEPLQLQKVEKGAIDKNNVNOARLEQVI 295  
 Db 240 VFGVTDNPRELQVKYLTITTYQKDEEKL SAYVIRLEPLQLQKVEKGAIDKNNVNOARLDQVI 299  
 Qy 296 AGANHSAGAIRQLWL TGAGEGPG 318  
 Db 300 AGAVHK-TIRRELNPEDGPAPG 321

RESULT 7  
 US-09-965-529-1  
 ; Sequence 1, Application US/09965529  
 ; Publication No. US20020182671A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LAL, Preeti  
 ; APPLICANT: YUE, Henry  
 ; APPLICANT: TANG, Y. Tom  
 ; APPLICANT: BANDMAN, Olga  
 ; APPLICANT: BURFORD, Neil  
 ; APPLICANT: AZIMZAI, Valda  
 ; APPLICANT: BAUGHN, Mariah R.  
 ; APPLICANT: LU, Dyoung Aina M.  
 ; APPLICANT: PATTERSON, Chandra  
 ; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
 ; FILE REFERENCE: PF-0731 USA  
 ; CURRENT APPLICATION NUMBER: US/09/965,529  
 ; CURRENT FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315  
 ; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14  
 ; NUMBER OF SEQ ID NOS: 74  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 1  
 ; LENGTH: 351  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; NAME/KEY: misc feature  
 ; OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1  
 US-09-965-529-1

Query Match 51.3%; Score 887.5; DB 9; Length 351;  
 Best Local Similarity 55.4%; Pred. No. 6.9e-78;  
 Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;  
  
 Qy 1 MAMTLLDWCRCGMDVNSQRTLLVWGI PVNCD EAEIETLQAA M-POVSYRMLGRMFWR EE 59  
 Db 1 MTLRLLEDWCRCGMDNPRKALLIAGISQSCSVAIEEALQAGLAPLGEYLLGRMFRDE 60  
 Qy 60 NAKAALLELTGAVDYAAI PREMPGKG VVWVLFK PPTSDAEFLERLHLFLAREGWTVDV 119  
 Db 61 NRKVALVGLTAETSHALVPKEIPGKGIWRVIFKPPDPNTFLSRLNEFLAGEGTVGEL 120  
 Qy 120 ARVLGFQNP T--PTPG--PMPAEMLYILDNVIQPLVESIWKRLTLFSGKGHPRAWRG 175  
 Db 121 SRALGHENGSLDPDQGMIPENWAPMLAQALE-ALQPALQCLKYKLRVFSGRESPEGEE 179  
 Qy 176 NFDPLWLEHTNEVL EEWQSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQ 235  
 Db 180 EFGRMFHTTQMIKAWQVPDVEKRRRLLESRGPDALDVRVLKINNPLITVDECLQALEE 239  
 Qy 236 VFGSVESRDAQIKFLNTYQNFGEKLSAYVIRLEPLQLQKVEKGAIDKNNVNOARLEQVI 295  
 Db 240 VFGVTDNPRELQVKYLTITTYQKDEEKL SAYVIRLEPLQLQKVEKGAIDKNNVNOARLDQVI 299  
 Qy 296 AGANHSAGAIRQLWL TGAGEGPG 318  
 Db 300 AGAVHK-TIRRELNPEDGPAPG 321

RESULT 8  
 US-09-804-014A-16  
 ; Sequence 16, Application US/09804014A  
 ; Publication No. US20030064489A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Vernhet, Corine  
 ; APPLICANT: Fernandes, Elma  
 ; APPLICANT: Shimketa, Richard  
 ; APPLICANT: Spaderna, Steven  
 ; APPLICANT: Majumder, Kumud  
 ; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 15966-721 US  
 ; CURRENT APPLICATION NUMBER: US/09/804,014A  
 ; CURRENT FILING DATE: 2002-04-24  
 ; PRIOR APPLICATION NUMBER: 60/188,316  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 60/188,277  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 60/189,139  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/189,140  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/190,401  
 ; PRIOR FILING DATE: 2000-03-17  
 ; PRIOR APPLICATION NUMBER: 60/190,231  
 ; PRIOR FILING DATE: 2000-03-17  
 ; NUMBER OF SEQ ID NOS: 75  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 16  
 ; LENGTH: 351  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-804-014A-16

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; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/11/048,692
; CURRENT FILING DATE: 2005-02-02
; PRIOR APPLICATION NUMBER: US/09/969,680
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 2483172CD1
US-11-048-692-7

Query Match          92.7%; Score 1602; DB 20; Length 353;
Best Local Similarity 96.6%; Pred. No. 7.2e-148;
Matches 308; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1 MAMTILLEDWCRGMDVNSQRTLLVWGIPVNCDEAEIETLQAAMPQVSYRMLGRMFWEEN 60
Db 1 MAMTILLEDWCRGMDVNSQRTLLVWGIPVNCDEAEIETLQAAMPQVSYRMLGRMFWEEN 60
QY 61 AKAALLELTGAVDYAAIPREMPGKGGVWKVLPKPTSDAEFLERLHLFLAREGWTVDVA 120
Db 61 AKAALLELTGAVDYAAIPREMPGKGGVWKVLPKPTSDAEFLERLHLFLAREGWTVDVA 120
QY 121 RVLGFNQPTPTPGPEMPAEMLNLYILDNVIQPLVESIWKRLTLFSGKGHPRAWRGNFDPW 180
Db 121 RVLGFNQPTPTPGPEMPAEMLNLYILDNVIQPLVESIWKRLTLFSGKGHPRAWRGNFDPW 180
QY 181 LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQVFGSV 240
Db 181 LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQVFGSV 240
QY 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIKDNVNVQARLEQVIAGANH 300
Db 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIKDNVNVQARLEQVIAGANH 300
QY 301 SGAIRQLMLTGAGEGPGP 319
Db 301 SGAIRQLMLTGAGEGPGP 319

RESULT 6
US-09-804-014A-39
; Sequence 39, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderma, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14

; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyoung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7

Query Match          92.7%; Score 1602; DB 10; Length 353;
Best Local Similarity 96.6%; Pred. No. 7.2e-148;
Matches 308; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 1 MAMTILLEDWCRGMDVNSQRTLLVWGIPVNCDEAEIETLQAAMPQVSYRMLGRMFWEEN 60
Db 1 MAMTILLEDWCRGMDVNSQRTLLVWGIPVNCDEAEIETLQAAMPQVSYRMLGRMFWEEN 60
QY 61 AKAALLELTGAVDYAAIPREMPGKGGVWKVLPKPTSDAEFLERLHLFLAREGWTVDVA 120
Db 61 AKAALLELTGAVDYAAIPREMPGKGGVWKVLPKPTSDAEFLERLHLFLAREGWTVDVA 120
QY 121 RVLGFNQPTPTPGPEMPAEMLNLYILDNVIQPLVESIWKRLTLFSGKGHPRAWRGNFDPW 180
Db 121 RVLGFNQPTPTPGPEMPAEMLNLYILDNVIQPLVESIWKRLTLFSGKGHPRAWRGNFDPW 180
QY 181 LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQVFGSV 240
Db 181 LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQVFGSV 240
QY 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIKDNVNVQARLEQVIAGANH 300
Db 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIKDNVNVQARLEQVIAGANH 300
QY 301 SGAIRQLMLTGAGEGPGP 319
Db 301 SGAIRQLMLTGAGEGPGP 319

RESULT 5
US-11-048-692-7
; Sequence 7, Application US/11048692
; Publication No. US2005012390A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyoung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
```

Qy	121	RVLGFQNPPTPTGPPMPAEMLN	YILDNVIOPLVESIWYKSLTTLFSGKGHPRAWGNFDPW	180
Db	121	RVLGFQNPPTPTGPPMPAEMLN	YILDNVIOPLVESIWYKSLTTLFSGKGHPRAWGNFDPW	180
Qy	181	LHSTNEVLEEWQSVDEVRRLMESL	RGPAADVIRILKSNNPATTTAECCLKALEQVFGSV	240
Db	181	LHSTNEVLEEWQSVDEVRRLMESL	RGPAADVIRILKSNNPATTTAECCLKALEQVFGSV	240
Qy	241	ESSRDAQIKFLNTYQNPEKLSAVY	IRLEPLLQKVWEKGAIDKDNVNQARLEQVIAGANH	300
Db	241	ESSRDAQIKFLNTYQNPEKLSAVY	IRLEPLLQKVWEKGAIDKDNVNQARLEQVIAGANH	300
Qy	301	SCAIRQLWLTCAGEGPGKPLSVAGADP		329
Db	301	SCAIRQLWLTCAGEGPGKPLSVAGADP		329

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RESULT 2
US-09-804-014A-40
; Sequence 40, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumar
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (20)
; OTHER INFORMATION: Wherein Xaa is any amino acid as defined in the
; OTHER INFORMATION: specification
US-09-804-014A-40

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Db	121	RVLGFGNPPTPGGEMPAEMLNYLDNVIQPLVESIVYKRLTILFSGKGHPRAWRGNFDPW	180
Qy	181	LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQVFGSV	240
Db	181	LEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLKALEQVFGSV	240
Qy	241	ESSRDAQIKFLNTYQNQGEKLSAVVIRLEPLLLQKVKEGATDKDNVNOARLEOVITAGANH	300
Db	241	ESSRDAQIKFLNTYQNQGEKLSAVVIRLEPLLLQKVKEGATDKDNVNOARLEOVITAGANH	300
Qy	301	SGAIRRQLWLTLTGAGEGPG	318
Db	301	SGAIRRQLWLTLTGAGEGPG	318

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RESULT 3
US-09-965-529-7
; Sequence 7, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Valda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1
US-09-965-529-7

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	Query Match	96.4%	Score 1666;	DB 10;	Length 318;
	Best Local Similarity	99.7%;	Pred. No. 3.3e-154;	Mismatches 0;	Gaps 0
	Matches 317;	Conservative	1;	Indels	0; Gaps 0
QY	1	MAMTLLDWCRCGMDVNSQRTLLVVGIPVNCDDEAEIETLQAAMPQVSRYMLGRMFWREEN	60		
Db	1	MAMTLLDWCRCGMDVNSQRXLVVGIPVNCDDEAEIETLQAAMPQVSRYMLGRMFWREEN	60		
QY	61	AKAALLELTGADVAAIPIREMPGGKGVVKVLFPPTSDAEFLERHLFLTAREGTWVDVA	120		
Db	61	AKAALLELTGADVAAIPIREMPGGKGVVKVLFPPTSDAEFLERHLFLTAREGTWVDVA	120		
QY	121	RVLGFQNFTPTPGDEMPAEMLNYILDNVIQLVESIWYKLTLFSGKHPRAWRGNFDPW	180		

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:45:49 ; Search time 87.4087 seconds  
(without alignments)  
1478.945 Million cell updates/sec

Title: US-10-037-860-4

Perfect score: 1729

Sequence: 1 MAMTLLDWCGRGMDVNSQRT.....LTGAGEGPGKPLSVAGADP 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

- 1: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/prodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/prodata/1/pubpaa/US05\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/prodata/1/pubpaa/US06\_PUBCOMB.pep.\*
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- 10: /cgn2\_6/prodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/prodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/prodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/prodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/prodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
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- 16: /cgn2\_6/prodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/prodata/1/pubpaa/US10E\_PUBCOMB.pep.\*
- 18: /cgn2\_6/prodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/prodata/1/pubpaa/US11A\_PUBCOMB.pep.\*
- 20: /cgn2\_6/prodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 21: /cgn2\_6/prodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 22: /cgn2\_6/prodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1729	100.0	329	13	US-10-037-860-4
2	1666	96.4	318	10	US-09-804-014A-40
3	1602	92.7	353	9	US-09-965-529-7
4	1602	92.7	353	10	US-09-969-680A-7
5	1602	92.7	353	20	US-11-048-692-7
6	887.5	51.3	321	10	US-09-804-014A-39
7	887.5	51.3	351	9	US-09-965-529-1
8	887.5	51.3	351	10	US-09-804-014A-16
9	887.5	51.3	351	10	US-09-969-680A-1
10	887.5	51.3	351	15	US-10-341-434-10
11	887.5	51.3	351	20	US-11-048-692-1

12	874.5	50.6	312	10	US-09-804-014A-73	Sequence 73, Appl
13	874.5	50.6	312	10	US-09-804-014A-74	Sequence 74, Appl
14	770.5	44.6	364	17	US-10-504-329-3	Sequence 3, Appl
15	766.5	44.3	463	13	US-10-037-860-13	Sequence 13, Appl
16	744	43.0	452	16	US-10-408-765A-2385	Sequence 2385, Ap
17	620	35.9	399	15	US-10-094-749-1978	Sequence 1978, Ap
18	564	32.6	283	13	US-10-037-860-11	Sequence 11, Appl
19	441	25.5	195	13	US-10-037-860-7	Sequence 7, Appl
20	353.5	20.4	120	10	US-09-804-014A-41	Sequence 41, Appl
21	338.5	19.6	120	10	US-09-804-014A-42	Sequence 42, Appl
22	335.5	19.4	403	15	US-10-094-466-38	Sequence 38, Appl
23	332	19.2	402	17	US-10-959-539-28	Sequence 28, Appl
24	326	18.9	337	15	US-10-296-115-1208	Sequence 1208, Ap
25	304	17.6	204	14	US-10-029-386-33747	Sequence 33747, A
26	256.5	14.8	149	13	US-10-037-860-9	Sequence 9, Appl
27	246.5	14.3	116	9	US-09-864-761-34645	Sequence 34645, A
28	192	11.1	538	16	US-10-408-765A-2992	Sequence 2992, Ap
29	133	7.7	584	15	US-10-291-172-355	Sequence 355, App
30	133	7.7	584	15	US-10-221-278-355	Sequence 355, App
31	120.5	7.0	5245	14	US-10-329-079-45	Sequence 45, Appl
32	115.5	6.7	555	15	US-10-282-122A-49641	Sequence 49641, A
33	114.5	6.6	555	15	US-10-282-122A-50770	Sequence 50770, A
34	114	6.6	558	15	US-10-282-122A-65151	Sequence 65151, A
35	111	6.4	531	15	US-10-282-122A-66072	Sequence 66072, A
36	109	6.3	531	15	US-10-369-493-17979	Sequence 17979, A
37	108	6.2	558	18	US-10-988-943-15	Sequence 15, Appl
38	107.5	6.2	526	15	US-10-282-122A-47973	Sequence 47973, A
39	106.5	6.2	409	17	US-10-492-928A-159	Sequence 159, App
40	106.5	6.2	503	9	US-09-738-628-5485	Sequence 5485, Ap
41	104.5	6.0	556	15	US-10-282-122A-58461	Sequence 58461, A
42	103	6.0	517	16	US-10-425-115-269372	Sequence 269372, A
43	103	6.0	935	14	US-10-080-608A-25	Sequence 25, Appl
44	103	6.0	935	15	US-10-370-685-114	Sequence 114, App
45	103	6.0	1071	16	US-10-425-115-362079	Sequence 362079, A

#### ALIGNMENTS

##### RESULT 1

US-10-037-860-4  
; Sequence 4, Application US/10037860  
; Publication No. US20020123114A1  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Joseph O. Dalmou  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA  
; TITLE OF INVENTION: ANTIBODIES  
; FILE REFERENCE: 2581.1004-004  
; CURRENT APPLICATION NUMBER: US/10/037,860  
; CURRENT FILING DATE: 2001-01-04  
; PRIOR APPLICATION NUMBER: 09/189,527  
; PRIOR FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-10-037-860-4

Query Match	100.0%;	Score 1729;	DB 13;	Length 329;
Best Local Similarity	100.0%;	Pred. No. 2.4e-160;		
Matches 329;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MAMTLLDWCGRGMDVNSQRTLLVWGI	PVNCDEAEIETLQAAMPQVSYRMLGRMFREEN	60
Db	1	MAMTLLDWCGRGMDVNSQRTLLVWGI	PVNCDEAEIETLQAAMPQVSYRMLGRMFREEN	60
Qy	61	AKAALLLGAVDVAIIPREMPKGGV	KVLPKPTSDAEFLERLHLFLAREGWTVDVA	120
Db	61	AKAALLLGAVDVAIIPREMPKGGV	KVLPKPTSDAEFLERLHLFLAREGWTVDVA	120



COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/055,097  
FILING DATE: Filed Herewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cerrone, Michael C.  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: PF-0490 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 378 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: DUODNOT02  
CLONE: 1705085  
US-09-055-097-1

Query Match 5.3%; Score 91.5; DB 2; Length 378;  
Best Local Similarity 23.9%; Pred. No. 0.38;  
Matches 61; Conservative 26; Mismatches 89; Indels 79; Gaps 15;  
QY 11 RGMV-----NSQRTLLV---GIPVNCDEAEIEETLOAMPQVSYSR-----MLGR 53  
DB 101 RGLRVQTLFLGEPNAQHP--VMGSGSGLASESAAGDILQAAP-QDSYRNLTSLTSG 157  
QY 54 MFWREENAKAALLLELTCAVD-YAAIPREMP-----GKGGVWVLFKPP-TSDAEFLERL 105  
DB 158 LNWAEKCPHARYVLYKTDDVYVNPVELVSELVLRGRWGQWERSTEPQREASQEGGQVL 217  
QY 106 H-----LFLAREGWTQDVARVLGFQNPPTTPGPEMPAEMLNLYLDNVIQPLVESIWK 159  
DB 218 HSEVPPLLYLGRVHVR-----NPSRTPGGR-----HRVSEQW-- 251  
QY 160 RLTLFSKGHPRAWGNFDPWLEHTNVELEWQVS-----DVEKRRRLMESLRGPAADVIRI 216  
DB 252 -----PHTW-GPPFPYASGTGYLSASAVQLILKVASRAPLL-----PLEDVFG 295  
QY 217 LKSNNPATTAECCLK 231  
DB 296 VSARGGLAPTQCVK 310

Search completed: August 26, 2005, 16:50:22  
Job time : 26.8083 secs

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;
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2431 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-08-466-277-2

Query Match          5.3%; Score 92.5; DB 3; Length 2431;
Best Local Similarity 19.6%; Pred. No. 6.4;
Matches 74; Conservative 50; Mismatches 112; Indels 141; Gaps 15;

Qy 52 GRMFWEENAKAALLELTGAVDYAAIPREMPGKGWVKVLFKPPSTDABFLERLHLFL-- 109
Db 865 GKMRTPNCKPIIIDTTG-----QTKPKGDIVLTCFRGWAKQLQLDYRGHEVMTA 916
Qy 110 -AREGTVQDVAVLGFQNPPTTPGEMPAEMLYILDNVIQPLVESIWKRLTLFSGKG 168
Db 917 AASQGLTRKGYAVROKVNENPLYAP--ASEHVNLLTRTEDRLV-----WKTILA-- 964
Qy 169 HPRAWGNFDPWLEHTNEV-----LEEQVSDVEKRRRLMESLRGPAADV----- 213
Db 965 -----GDPWIKVLSNIPQGNFTATLEWQ-----EEHDKIMKVIETGPAAPVDAFONKA 1012
Qy 214 -----IRILKSNNPATTTA-----ECLKALEQV-----ECLKALEQV----- 236
Db 1013 NVCWAKSLVPVLDTAGIRLTAEWSTIITAFKEDRAYSPVVALNEICTKYGYVDLSGLF 1072
Qy 237 -----FGSVESR--DAQIKFLNTYQNPGEKLSAYVIRLEPL 271
Db 1073 SAPKVSLYENNHNDRNPGRMVGFNAATAARLEAHTFLKGOWHTGKQAVIAERKIQPL 1132
Qy 272 --LQKVVE-----KGAIKDNVNQARLEQVIAGANHSgai--RRQLWLT 311
Db 1133 SVLDNVIPINRRLPHALVAEYKTVKGSRVWLVNKGVRGYHVLVSEYNLALPRRRTWLS 1192
Qy 312 GAGEGPGPKPLSVAGAD 328
Db 1193 -----PLNVTGAD 1200

RESULT 14
US-09-688-842-2
; Sequence 2, Application US/09688842
; Patent No. 670283
; GENERAL INFORMATION:
; APPLICANT: Garoff, Henrik
; TITLE OF INVENTION: DNA Expression Systems Based on
; Alphaviruses
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/688,842
; FILING DATE: 17-Oct-2000

```

```

;
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/466,277
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2431 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-688-842-2

Query Match          5.3%; Score 92.5; DB 4; Length 2431;
Best Local Similarity 19.6%; Pred. No. 6.4;
Matches 74; Conservative 50; Mismatches 112; Indels 141; Gaps 15;

Qy 52 GRMFWEENAKAALLELTGAVDYAAIPREMPGKGWVKVLFKPPSTDABFLERLHLFL-- 109
Db 865 GKMRTPNCKPIIIDTTG-----QTKPKGDIVLTCFRGWAKQLQLDYRGHEVMTA 916
Qy 110 -AREGTVQDVAVLGFQNPPTTPGEMPAEMLYILDNVIQPLVESIWKRLTLFSGKG 168
Db 917 AASQGLTRKGYAVROKVNENPLYAP--ASEHVNLLTRTEDRLV-----WKTILA-- 964
Qy 169 HPRAWGNFDPWLEHTNEV-----LEEQVSDVEKRRRLMESLRGPAADV----- 213
Db 965 -----GDPWIKVLSNIPQGNFTATLEWQ-----EEHDKIMKVIETGPAAPVDAFONKA 1012
Qy 214 -----IRILKSNNPATTTA-----ECLKALEQV-----ECLKALEQV----- 236
Db 1013 NVCWAKSLVPVLDTAGIRLTAEWSTIITAFKEDRAYSPVVALNEICTKYGYVDLSGLF 1072
Qy 237 -----FGSVESR--DAQIKFLNTYQNPGEKLSAYVIRLEPL 271
Db 1073 SAPKVSLYENNHNDRNPGRMVGFNAATAARLEAHTFLKGOWHTGKQAVIAERKIQPL 1132
Qy 272 --LQKVVE-----KGAIKDNVNQARLEQVIAGANHSgai--RRQLWLT 311
Db 1133 SVLDNVIPINRRLPHALVAEYKTVKGSRVWLVNKGVRGYHVLVSEYNLALPRRRTWLS 1192
Qy 312 GAGEGPGPKPLSVAGAD 328
Db 1193 -----PLNVTGAD 1200

RESULT 15
US-09-055-097-1
; Sequence 1, Application US/09055097
; Patent No. 5955282
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; APPLICANT: Patterson, Chandra
; TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304

```

```
; NUMBER OF SEQ ID NOS: 16925
; SEQ ID NO 15988
; LENGTH: 2214
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-15988

Query Match      5.3%; Score 92.5; DB 4; Length 2214;
Best Local Similarity 21.0%; Pred. No. 5.5;
Matches 80; Conservative 46; Mismatches 136; Indels 119; Gaps 16;

Qy 25 GIPVNCDEAEETETLQAAPOVSYRMLGRMFWREBENAKAALLLELTGAV-----DYA 75
Db 395 GQPEDEAAALAEALQGPAPRVEALL-----ARAALLESSGRMAAGQSLEAALA 445
Qy 76 AIPREMGKGVWVKVLPKPTSDAEFLERHLFLAREGWTVDVARVLGFQNP--TTPG 133
Db 446 LAPRHAQATAALQRLV-----RTREDWAA--LAELLSTEAPHVAPAEA 486
Qy 134 PEMAEMNLVILDNVIOPL--VESIWKRLTLTLPFGKGHPR-----AWRGNFDEWLEHTN 185
Db 487 AAMYAEIASLYLDRLSQFPAEALRQALRLSPSDAAVRRRLVSLVAERGE---LREAA 542
Qy 186 EVLEEMQVS-----DVEKRRL-----MESLRGP-----AADVI 214
Db 543 ALLETAESAHTADHAALLREGAGYARGAHDLDKALKLAKAHALVPAQGPPELASLAELL 602
Qy 215 RILKSNPAITTAELCKALEQVFGSVSSRDAQIKFLNTTYONPGE---KLSAY----- 264
Db 603 YLRGAVIEALPLQDALAAADFRSAPAEASTWLRLAELAEQTGETKRAVAAYRKLIVER 662
Qy 265 -----VIRLEPLLOKVEKAID-----KDNVNO-----ARLEQVIAGNHS 301
Db 663 PLCEAAVMRLAALLLEKDDPGAFDVRVTHAHALAPSEDVTQRLVELSARAREVLADA--- 719
Qy 302 GAIRRQLWLTCAGSGPGPKPL 322
Db 720 -GVNAASLLARAASLASEPLPL 739

RESULT 12
US-07-920-281C-2
; Sequence 2, Application US/07920281C
; Patent No. 5739026
; GENERAL INFORMATION:
; APPLICANT: Garoff, Henrik
; APPLICANT: Liljestrom, Peter
; TITLE OF INVENTION: DNA Expression Systems Based on
; TITLE OF INVENTION: Alphaviruses
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/920,281C
; FILING DATE: 13-AUG-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848

; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2431 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-920-281C-2

Query Match      5.3%; Score 92.5; DB 1; Length 2431;
Best Local Similarity 19.6%; Pred. No. 6.4;
Matches 74; Conservative 50; Mismatches 112; Indels 141; Gaps 15;

Qy 52 GRMFWREBNAKALLBELTGAVDYAAIPREMPGKGVWVKVLPKPTSDAEFLERHLFL-- 109
Db 865 GMRITTPNCPNKPIIIDTTG-----QTKPKPGDIVLTCFRGWAKQLQLDYRGHEVMTA 916
Qy 110 -AREGWTVDVARVLGFQNPPTTPGPEMPAEMNLVILDNVIOPLVESIWKRLTLFSGKG 168
Db 917 AASQGLTRKGVAVROKVNENPLYAP--ASEHVNVLTRTEDRLV---WKTLA----- 964
Qy 169 HPRAMRGNFDPWLEHTNEV-----LBEWQVSDVEKRRRLMESLRGPAADV----- 213
Db 965 -----GDPWIKVLSNIPQGNFTATLEWQ-----EHDKIMKVIIEGPAAPVDAFQNK 1012
Qy 214 -----IRILKSNNPATTTA-----ECLKALEQV----- 236
Db 1013 NVCWAKSLVPVLDTAGIRLTAEWSTIITAFKEDRAYSPVVALNEICTKYGYVDLDSGLF 1072
Qy 237 -----FGSVSSR--DAOIKFLNTTYQNPEKLSAVVIRLEPL 271
Db 1073 SAPKSVLYENNHNWDRPGRMYGFNAAATAARLEAARHTFLKGQWHTGKQKQVIAERKIQL 1132
Qy 272 --LQKVE-----KGAIKDNVNNQARLEQVIAGANHSQAI--RRQLWLT 311
Db 1133 SVLDNVIPINRRLPALHVAEYKTVKGSRVEMLVNKVGYHVLLVSEYNLALPRRRVTLS 1192
Qy 312 GAGEGPGPKPLSVAGAD 328
Db 1193 -----PLNVTGAD 1200

RESULT 13
US-08-466-277-2
; Sequence 2, Application US/08466277
; Patent No. 6190666
; GENERAL INFORMATION:
; APPLICANT: Garoff, Henrik
; APPLICANT: Liljestrom, Peter
; TITLE OF INVENTION: DNA Expression Systems Based on
; TITLE OF INVENTION: Alphaviruses
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,277
; FILING DATE: 06-Jun-1995
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/920,281
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
```



```
; Patent No. 6495336
; GENERAL INFORMATION:
; APPLICANT: Makowski, Lee
; APPLICANT: Hyman, Paul
; APPLICANT: Williams, Mark
; TITLE OF INVENTION: STAGED ASSEMBLY OF NANOSTRUCTURES
; FILE REFERENCE: 8471-010-999
; CURRENT APPLICATION NUMBER: US/09/914,259
; CURRENT FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 935
; TYPE: PRT
; ORGANISM: Syncephalastrum racemosum
US-09-914-259-25

Query Match          6.0%; Score 103; DB 4; Length 935;
Best Local Similarity 21.7%; Pred. No. 0.091;
Matches 69; Conservative 56; Mismatches 121; Indels 72; Gaps 15;

Qy 16 NSQRTLLVWGIPVNCDAEIEETLQAAAMPQVSYRMLGRMFWRNKAALLEN-----68
Db 297 NSRTTLINCSPPSYNEAETLSTLRFGARAKSIKNKAKV-----NADLSPAELKALLKKV 351
Qy 69 -TGAVDYAAIPREMPGKGGVWVLFKPTSDAEFLERHLFLABEG-WTVQDVAVRVLGFQ 126
Db 352 KSEAVTYQTYAALLEGVNVWRTGCTVP-----EGKWVTMDKVSKGDFA 395
Qy 127 NPTTPGPEPAEMLNVLNDVIOPLVESIWKRLTLFSGKGHPRAWRGNFDPLWLEHTNE 186
Db 396 GLPAPGFKSP-----VSDGSRPATPV-----PTLEKDRBEFIKRENE 435
Qy 187 VLEEQVSDVE---KRRRLMESLR---GPAADVIRILKSNPAITT--AECLKALEQVF 237
Db 436 LMD-QISEKETELTNREKLESUREMGVYKEQSVTKENQOQMTSELSELRLQLQKV- 492
Qy 238 GSVESSRDAQIKFLNTYQNGEKLASVIRLEPLQKV--VEKGAIDKNVQ--ARLEQ 293
Db 493 -SYESKENAIT--VDSLKEANQDLMABELELKKNLSEMQAHKDATSDSKERKAEMQA 549
Qy 294 VIAGANHSGAI---RRQL 308
Db 550 MMSGFDPFSGIINDXERQI 567

RESULT 6
US-09-368-590-2
; Sequence 2, Application US/09368590
; Patent No. 6187563
; GENERAL INFORMATION:
; APPLICANT: Solimena, Michele
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
; TITLE OF INVENTION: AUTOANTIGENS OF AUTOIMMUNE DISEASES
; FILE REFERENCE: 101918-200 (OCR-941)
; CURRENT APPLICATION NUMBER: US/09/368,590
; CURRENT FILING DATE: 1999-08-04
; EARLIER APPLICATION NUMBER: 60/095,657
; EARLIER FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2293
; TYPE: PRT
; ORGANISM: Human
US-09-368-590-2

Query Match          5.8%; Score 100.5; DB 3; Length 2293;
Best Local Similarity 22.6%; Pred. No. 0.76; 139; Indels 77; Gaps 18;
Matches 78; Conservative 51; Mismatches 139; Indels 77; Gaps 18;

Qy 9 WCRGMDVNSOR-----TLVWGIPVNCDE--ABIEETLQAAAMPQVSYRMLGRMFWRN 60
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Db 667 WNRIVELVEQRKEEMSAVLLVNHVLEVAEVRVQVREKRAV--ESAPRAGGALQWRLSG 724
Qy 61 AKAALLEL-----TGAVDYAAIPRE-MPGK-----GGVWVLFKPTSDAE----- 100
Db 725 LEAALQALEPRQAALLEEAALLAERFPAQAAXLHQGAELGAEWGALASAAQACGEAVAA 784
Qy 101 -----FLERLHLFLAREGWTQDVAVRVLGFQNPPTTPGPEMPAEMLN--ILDNVIOPLV 153
Db 785 AGRLOQFLHDLDAFL---DWLVRAQEAAGSGEGLPNSLEADALLARHAALKEEVDQRE 841
Qy 154 ESIWYKRL-----TLFSGKGHPRAWRGNFDPLWLEHT-----NEVLEEQVSDVKRRRLME 204
Db 842 ED--YARIIVAASEALLAADGAELGPGGLALDDEWLPHELGHWKLLGLWKA-----RRKALVQ 895
Qy 205 S-----LRGPAADVIRILKSNNPATTTAECLKALEQVFGSVSSRDAQIKFLNTYQNGP 258
Db 896 AHYQFLR--DLRQALVVLNRNQEMALSGAELPGTVESVEEALKQHRD-----FLTTMELSQ 950
Qy 259 EKLSAVVIRLEPLL-----QKVVEKGAIDKDNVNOARLEQ 293
Db 951 QKQVAVQAAGLULROGNIYGEQAQEAQVTR-LLEKQENQLRAQQ 994

RESULT 7
US-09-949-016-7309
; Sequence 7309, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7309
; LENGTH: 2600
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7309

Query Match          5.8%; Score 99.5; DB 4; Length 2600;
Best Local Similarity 22.6%; Pred. No. 1.2; 140; Indels 77; Gaps 18;
Matches 78; Conservative 50; Mismatches 140; Indels 77; Gaps 18;

Qy 9 WCRGMDVNSOR-----TLVWGIPVNCDE--AEIETLQAAAMPQVSYRMLGRMFWRN 60
Db 1005 WNRIVELVEQRKEEMSAVLLVNHVLEVAEVRVQVREKRAV--ESAPRAGGALQWRLSG 1062
Qy 61 AKAALLEL-----TGAVDYAAIPRE-MPGK-----GGVWVLFKPTSDAE----- 100
Db 1063 LEAALQALEPRQAALLEEAALLAERFPAQAARLHQGAELGAEWGALASAAQACGEAVAA 1122
Qy 101 -----FLERLHLFLAREGWTQDVAVRVLGFQNPPTTPGPEMPAEMLN--ILDNVIOPLV 153
Db 1123 AGRLOQFLHDLDAFL---DWLVRAQEAAGSGEGLPNSLEADALLARHAALKEEVDQRE 1179
Qy 154 ESIWYKRL-----TLFSGKGHPRAWRGNFDPLWLEHT-----NEVLEEQVSDVKRRRLME 204
Db 1180 ED--YARIIVAASEALLAADGAELGPGGLALDDEWLPHELGHWKLLGLWEA-----RREALVQ 1233
Qy 205 S-----LRGPAADVIRILKSNNPATTTAECLKALEQVFGSVSSRDAQIKFLNTYQNGP 258
Db 1234 AHYQFLR--DLRQALVVLNRNQEMALSGAELPGTVESVEEALKQHRD-----FLTTMELSQ 1288
Qy 259 EKLSAVVIRLEPLL-----QKVVEKGAIDKDNVNOARLEQ 293
```

## RESULT 2

US-09-189-527-13  
; Sequence 13, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; TITLE OF INVENTION: Antibodies  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 13  
; LENGTH: 462  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-13

Query Match 43.2%; Score 747.5; DB 3; Length 462;  
Best Local Similarity 49.8%; Pred. No. 1.7e-73;  
Matches 153; Conservative 49; Mismatches 102; Indels 3; Gaps 2;  
  
QY 7 EDWCRGMDVNSORTLLVWGIPVNCDEAEIETLQAAMPQVS-YRMLGRMFWEENAKAAL 65  
DB 1 QDWCRGHLNTRCMLILGIPEDCGEDEFETLQACRHLGRYRVIGRMFRRENAQAIL 60  
  
QY 66 LEUTGAVDYAAIPREMPGKGVWVLFKPTSDAEFLERLHLFLAREGWTVDVARVLGF 125  
DB 61 LELAQIDYALLPREIPGKGPWEVIVKPNSDGEFLNRLNRFLEBERRTVSDMNRVLGS 120  
  
QY 126 QNTPTPPPEMPAEMLY--ILDNVIOPLVESIWKRLTLFSGKGHPRAWRGHFDPLWEH 193  
DB 121 DTNCSAPRVTSPEFTWAGTGAQVQPLLEQLMYRELRFVSGNTISIPGALAFDAWLEH 180  
  
QY 184 TNEVLEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLEKALEQVFGVSSESS 243  
DB 181 TTEMLQWQVPEGEKRRRLMECLRGPAQVVGSLRASASITVEECLEAALQVFGVPESH 240  
  
QY 244 RDAQIKPLNTYQNGEKLKSAVIRLEPLLOKVVKEGAIDKDNVQNARLEQVIAAGNHSGA 303  
DB 241 KIAQVKLCKAYQAGEKVSFVLRLLEPLQRAVENNVSRNNVQTRLRKRVLSGATLPDK 300  
  
QY 304 IRQLWL 310  
DB 301 LRDKLXL 307

## RESULT 3

US-09-189-527-7  
; Sequence 7, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; TITLE OF INVENTION: Antibodies  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 195  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-7

Query Match 25.5%; Score 441; DB 3; Length 195;  
Best Local Similarity 46.4%; Pred. No. 3e-40;

Matches 90; Conservative 37; Mismatches 61; Indels 6; Gaps 4;  
  
QY 3 MTLLDWCRCMDVNSORTLLVWGIPVNCDEAEIETLQAAMPQVS-YRMLGRMFWEENAKAAL 61  
DB 2 LALLDWCRCRMSVDEQKSLMVTGIPADFBFAEIQEVLQETLSGLRSLRGLKGFPRKQENA 61  
  
QY 62 KAAELLELTGAVDYAAIPREMPGKGVWVLFKPTSDAEFLERLHLFLAREGWTVDVAR 121  
DB 62 NAVLLELLEDTVSAIPSEVQKGVWVLFKPTNQDTEFLERLNLFLKEGQTVSGMFR 121  
  
QY 122 VLGFQ--NPTPTP--QPEMPAEMLYILDNVIOPLVESIWKRLTLFSGKGHPRAWRGHFN 177  
DB 122 ALQGEALSPATVPCISPELLAHLGQMAHAPOPLL-PMRYRKLRFVSSGSAVPAPEESF 180  
  
QY 178 DPMLEHTNEVLEW 191  
DB 181 EVWLEQATEIVKEW 194

## RESULT 4

US-09-902-540-16701  
; Sequence 16701, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wiegand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
; FILE REFERENCE: 38-10(15849)B  
; CURRENT APPLICATION NUMBER: US/09/902,540  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: 60/217,883  
; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 16701  
; LENGTH: 551  
; TYPE: PRT  
; ORGANISM: Myxococcus xanthus  
US-09-902-540-16701

Query Match 6.4%; Score 110.5; DB 4; Length 551;  
Best Local Similarity 21.5%; Pred. No. 0.0056;  
Matches 71; Conservative 47; Mismatches 113; Indels 99; Gaps 17;  
  
QY 60 NAKAALLELTGAVDYAAIPREMPGKGVWVLFKPTSDAEFLERLHLFLARE----- 112  
DB 81 NVELGELKEIRATLDRF---NEVSAK-----FAEPMDSAE-MEKL---LAEQGRLODAI 126  
  
QY 113 ----GW-----TVO-----DVARVLG-----FQNP-----TPTPGPE 135  
DB 127 DAVNGHELDRTEIMANDALRLPGDADVTKLSGEKRRVALCHILLEKPDLLLDSEPTNH 186  
  
QY 136 MPAEML-----NYILDNVIOPLVESIWKRLTLFSGKGHPRAWRG 175  
DB 187 LDAESVAMLEQALKEYGTIVCITHDRYFLDAAEWILE-----LDRGEGVP--WKG 236  
  
QY 176 NPDPMLEHTNEVLEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATTTAECLEKALEQ 235  
DB 237 NYSSWLEQKQKRLLEEKSESHRQTKLREL-----EWRASPKARQAOKSKAR-IAAYEE 290  
  
QY 236 VFGSVESSESDAQIKFLNTYQNGEKLKSAVIRLEPLLOKVVKEGAIDKDNVQNARLEQV- 294  
DB 291 LLNQTDKEDATGEVIIP---FGPQLGGLVWEAKGLRKAYGDRLLIEDLNFKLPRGGIVG 347  
  
QY 295 IAGANHSGAIRRLQMLWTGAGEGPGPKPLSV 324  
DB 348 VIGPNAGAKTTLFRMMTGV-EKPDEGELNI 376

## RESULT 5

US-09-914-259-25  
; Sequence 25, Application US/09914259

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 16:35:24 ; Search time 24.8083 Seconds  
(without alignments)  
989.972 Million cell updates/sec

Title: US-10-037-860-4

Perfect score: 1729

Sequence: 1 MAMTLLDRCRGMDVNSQRT.....LTGAGEGPGPKPLSVAGADP 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

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4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*

5: /cgn2\_6/ptodata/1/iaa/PCUTUS\_COMB.pep.\*

6: /cgn2\_6/ptodata/1/iaa/backfilee1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1729	100.0	329	3	US-09-189-527-4
2	747.5	43.2	462	3	US-09-189-527-13
3	441	25.5	195	3	US-09-189-527-7
4	110.5	6.4	551	4	US-09-902-540-16701
5	103	6.0	935	4	US-09-914-259-25
6	100.5	5.8	2293	3	US-09-368-590-2
7	99.5	5.8	2600	4	US-09-949-016-7309
8	97.5	5.6	288	4	US-09-489-039A-12764
9	96	5.6	272	4	US-09-902-540-16406
10	93.5	5.4	573	4	US-09-328-352-6016
11	92.5	5.3	2214	4	US-09-902-540-15988
12	92.5	5.3	2431	1	US-07-920-281C-2
13	92.5	5.3	2431	3	US-08-466-277-2
14	92.5	5.3	2431	4	US-09-688-842-2
15	91.5	5.3	378	2	US-09-055-097-1
16	91.5	5.3	378	4	US-09-373-902-1
17	91.5	5.3	378	4	US-09-831-630-13
18	91.5	5.3	393	4	US-09-949-016-11567
19	91	5.3	565	4	US-09-543-681A-5919
20	90	5.2	688	4	US-09-252-991A-32748
21	89.5	5.2	880	4	US-09-489-039A-12446
22	89	5.1	178	4	US-09-489-039A-11551
23	88.5	5.1	389	4	US-09-252-991A-22086
24	88.5	5.1	499	4	US-09-902-540-14146
25	88.5	5.1	4872	4	US-09-424-783-3
26	87.5	5.1	588	4	US-09-438-185A-23
27	87	5.0	600	3	US-09-212-971-12

28	87	5.0	600	3	US-08-800-929A-12	Sequence 12, Appl
29	87	5.0	600	3	US-09-617-053A-12	Sequence 12, Appl
30	87	5.0	1300	4	US-09-543-681A-4501	Sequence 4501, Ap
31	86.5	5.0	373	4	US-09-328-352-7009	Sequence 7009, Ap
32	86	5.0	555	4	US-09-492-709A-308	Sequence 308, App
33	86	5.0	854	4	US-09-134-000C-4673	Sequence 4673, Ap
34	85	4.9	469	3	US-08-985-335-9	Sequence 9, Appli
35	85	4.9	469	3	US-09-410-372-9	Sequence 9, Appli
36	85	4.9	1209	4	US-09-252-991A-25844	Sequence 25844, A
37	84.5	4.9	1105	3	US-08-999-774A-2	Sequence 2, Appli
38	84.5	4.9	4866	4	US-09-424-783-2	Sequence 2, Appli
39	84	4.9	406	4	US-09-328-352-6564	Sequence 6564, Ap
40	84	4.9	871	3	US-09-134-001C-3979	Sequence 3979, Ap
41	83.5	4.8	332	4	US-09-252-991A-24064	Sequence 24064, A
42	83.5	4.8	431	4	US-09-543-681A-6055	Sequence 6055, Ap
43	83	4.8	341	1	US-08-314-309A-19	Sequence 19, Appl
44	83	4.8	524	3	US-08-557-210A-3	Sequence 3, Appli
45	83	4.8	539	3	US-08-557-210A-4	Sequence 4, Appli

## ALIGNMENTS

RESULT 1

US-09-189-527-4

; Sequence 4, Application US/09189527A

; Patent No. 6387639

; GENERAL INFORMATION:

; APPLICANT: Jerome B. Posner

; APPLICANT: Josep O. Dalmau

; APPLICANT: Myrna R. Rosenfeld

; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma

; TITLE OF INVENTION: Antibodies

; FILE REFERENCE: SLK98-01

; CURRENT APPLICATION NUMBER: US/09/189,527A

; CURRENT FILING DATE: 1998-11-10

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 4

; LENGTH: 329

; TYPE: PRT

; ORGANISM: homo sapiens

US-09-189-527-4

Query Match		100.0%;	Score 1729;	DB 3;	Length 329;
Best Local Similarity		100.0%;	Pred. No. 3.1e-182;		
Matches 329;		Conservative	0;	Mismatches	0;
				Indels	0;
				Gaps	0;
Qy	1	MAMTLLDRCRGMDVNSQRTLLVWGIPVNCDEAEIETLQAAMPQVSYRMLGRMFREEN	60		
Db	1	MAMTLLDRCRGMDVNSQRTLLVWGIPVNCDEAEIETLQAAMPQVSYRMLGRMFREEN	60		
Qy	61	AKAALLETGADVAAIPREMPGKGWVKVLPKPTSDAEFLERLHLFLAREGWTQDVA	120		
Db	61	AKAALLETGADVAAIPREMPGKGWVKVLPKPTSDAEFLERLHLFLAREGWTQDVA	120		
Qy	121	RVLGFNQPTTPGPEMPAEMNLVILDNVIOPLVESIWKLTLPFGKGHPRAVRGPDFW	180		
Db	121	RVLGFNQPTTPGPEMPAEMNLVILDNVIOPLVESIWKLTLPFGKGHPRAVRGPDFW	180		
Qy	181	LEHTNEVLREWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATITTAECUKALEQVFGSV	240		
Db	181	LEHTNEVLREWQVSDVEKRRRLMESLRGPAADVIRILKSNNPATITTAECUKALEQVFGSV	240		
Qy	241	ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPFLQKVEKAIDKDNVNQARLEQVIAGANH	300		
Db	241	ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPFLQKVEKAIDKDNVNQARLEQVIAGANH	300		
Qy	301	SGAIRQLMLTGAGEGPGPKPLSVAGADP	329		
Db	301	SGAIRQLMLTGAGEGPGPKPLSVAGADP	329		



RESULT 12

US-09-902-540-9777

Sequence 9777, Application US/09902540

Patent No. 6833447

GENERAL INFORMATION:

APPLICANT: Goldman, Barty S.

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Wiegand, Roger C.

TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

FILE REFERENCE: 38-10(115849)B

CURRENT APPLICATION NUMBER: US/09/902,540

CURRENT FILING DATE: 2001-07-10

PRIOR APPLICATION NUMBER: 60/217,883

PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825

SEQ ID NO 9777

LENGTH: 1442

TYPE: PRT

ORGANISM: Myxococcus xanthus

US-09-902-540-9777

Query Match 8.1%; Score 81; DB 4; Length 1442;

Best Local Similarity 24.5%; Pred. No. 26;

Matches 56; Conservative 32; Mismatches 69; Indels 72; Gaps 15;

QY 2 LALLEDKCR-----INXSVDFQKSLMVTGI-----PADFEAEIQEVLQET 41

DB 671 LAURKRFCSDFELQAAATDGIILSLGEGHFFLAIEIFDLHPDHVEEVLVOAVLQAP 730

QY 42 L-----KSLGRYRLLG--KIFRKQBNANAVILLELLEDTDVSATPSEV-----QKG 84

DB 731 IFGTRFRWATRSIALHRMNGKRVAPNLQARS-----EDLLASVFPQVCGQDNHGG 784

QY 85 GGWVKVIFKTPNQD--TEFLERLNLFEKEGQTVSGMFRAL-----GQEALSPTVPCIS 137

DB 785 GDL-----ELDPHPLVTQTWDD---CLREAMVDGLREVLGRMDGRIRLLARDVP--E 833

QY 138 PELLALHLGQMAHAPOPL-----LPMRYRKLR-VFSGSAVPAPEEESF 180

DB 834 PSIFAH---AMTHS-QPYTFLLDAPAEERVRNVALRRAMPADVTAF 877

RESULT 13

US-09-252-991A-31474

Sequence 31474, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 31474

LENGTH: 136

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-31474

Query Match 8.1%; Score 80.5; DB 4; Length 136;

Best Local Similarity 21.6%; Pred. No. 0.92;

Matches 41; Conservative 24; Mismatches 48; Indels 77; Gaps 9;

QY 17 QKSLMVTGIP-----ADFEAEIQEVLQETLSLGRYLLGKIFRKQBNANAVILLELLE 71

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Qy 117 SCMFRLGQALSPATVPCISPELLAHLGQAMAHAPQ---LLPMRYKRLRVFSGSVP 173
Db 160 IGTFFWMAPEVIQBIGYNCVADIWSLGLTATMAEGKRPYADHPMR-----AIFMPTNP 215
Qy 174 APEESPEVWLEQATEIVKE 193
Db 216 PPTFRKPELWSDNFTDFVKQ 235

Search completed: August 26, 2005, 16:50:23
Job time : 15.704 secs

RESULT 15
US-09-185-370-5
; Sequence 5, Application US/09185370
; Patent No. 6093560
; GENERAL INFORMATION:
; APPLICANT: Force, Thomas
; APPLICANT: Kyriakis, John M.
; APPLICANT: Pombo, Celia M.
; APPLICANT: Bonventure, Joseph
; TITLE OF INVENTION: SOK-1 AND METHODS OF USE
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq For Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/185,370
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/852,743
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/327001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 270 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-185-370-5

Query Match 8.1%; Score 80.5; DB 3; Length 270;
Best Local Similarity 22.0%; Pred. No. 2.5;
Matches 44; Conservative 26; Mismatches 85; Indels 45; Gaps 6;

Qy 2 LALLEDCRIMSVDE-----QKSLMVTGIPADFEAEIQEVLOETLKSIGRYLLGKIFR 56
Db 73 LWIWEYCGAGSVSDIIRLNKIL-----TEDEIATILQSTLKGLEYLHPMKIHR 123
Qy 57 KOENANAVLLELLEDDTVSAIPSEVQGGVKVIFKTPNQDTEFLERLNLFLKEGQTV 116
Db 124 DIRAGNILL-----NTEGHAKLADFGVAGQLTDTMAKRN-----TV 159
Qy 117 SCMFRLGQALSPATVPCISPELLAHLGQAMAHAPQ---LLPMRYKRLRVFSGSVP 173
Db 160 IGTFFWMAPEVIQBIGYNCVADIWSLGLTATMAEGKRPYADHPMR-----AIFMPTNP 215
Qy 174 APEESPEVWLEQATEIVKE 193
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:45:49 ; Search time 51.8076 Seconds  
(without alignments)  
1478.945 Million cell updates/sec

Title: US-10-037-860-7  
Perfect score: 996  
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Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	996	100.0	195	13	US-10-037-860-7
2	982	98.6	364	17	US-10-504-329-3
3	604	60.6	120	10	US-09-804-014A-42
4	593	59.5	283	13	US-10-037-860-11
5	466	46.8	353	9	US-09-965-529-7
6	466	46.8	353	10	US-09-969-680A-7
7	466	46.8	353	20	US-11-048-692-7
8	462.5	46.4	463	13	US-10-037-860-13
9	441	44.3	329	13	US-10-037-860-4
10	440	44.2	318	10	US-09-804-014A-40
11	436	43.8	312	10	US-09-804-014A-73

12	436	43.8	312	10	US-09-804-014A-74	Sequence 74, Appl
13	436	43.8	321	10	US-09-804-014A-39	Sequence 39, Appl
14	436	43.8	351	9	US-09-965-529-1	Sequence 1, Appl
15	436	43.8	351	10	US-09-804-014A-16	Sequence 16, Appl
16	436	43.8	351	10	US-09-969-680A-1	Sequence 1, Appl
17	436	43.8	351	15	US-10-341-434-10	Sequence 10, Appl
18	436	43.8	351	20	US-11-048-692-1	Sequence 1, Appl
19	434	43.6	452	16	US-10-408-765A-2385	Sequence 2385, Ap
20	345	34.6	399	15	US-10-094-749-1978	Sequence 1978, Ap
21	327.5	32.9	204	14	US-10-029-386-33747	Sequence 33747, A
22	306	30.7	120	10	US-09-804-014A-41	Sequence 41, Appl
23	270	27.1	116	9	US-09-864-761-34645	Sequence 34645, A
24	146	14.7	538	16	US-10-408-765A-2992	Sequence 2992, Ap
25	137.5	13.8	584	15	US-10-291-172-355	Sequence 355, Ap
26	137.5	13.8	584	15	US-10-221-278-355	Sequence 355, Ap
27	99.5	10.0	403	15	US-10-094-466-38	Sequence 38, Appl
28	97.5	9.8	402	17	US-10-959-539-26	Sequence 26, Appl
29	92.5	9.3	337	15	US-10-296-115-1208	Sequence 1208, Ap
30	89	8.9	342	13	US-10-001-857-201	Sequence 201, App
31	87.5	8.8	255	13	US-10-087-192-213	Sequence 213, App
32	87.5	8.8	311	10	US-09-727-100-1	Sequence 1, Appl
33	87.5	8.8	1357	15	US-10-295-027-1199	Sequence 1199, Ap
34	87.5	8.8	3830	16	US-10-723-860-2568	Sequence 2568, Ap
35	87.5	8.8	3859	16	US-10-408-765A-354	Sequence 354, App
36	86	8.6	792	16	US-10-739-930-5794	Sequence 5794, Ap
37	86	8.6	1083	15	US-10-369-493-4443	Sequence 4443, Ap
38	86	8.6	1083	15	US-10-369-493-7202	Sequence 7202, Ap
39	86	8.6	1084	15	US-10-282-122A-49912	Sequence 49912, A
40	85.5	8.6	407	15	US-10-369-493-17903	Sequence 17903, A
41	84.5	8.5	520	9	US-09-213-678-2	Sequence 2, Appli
42	84.5	8.5	520	14	US-10-032-585-7035	Sequence 7035, Ap
43	84.5	8.5	520	17	US-10-882-104-121	Sequence 121, App
44	84	8.4	336	9	US-09-745-763-17	Sequence 17, Appl
45	84	8.4	1638	13	US-10-090-458-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-10-037-860-7  
; Sequence 7, Application US/10037860  
; Publication No. US20020123114A1  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma  
; FILE REFERENCE: 2581.1004-004  
; CURRENT APPLICATION NUMBER: US/10/037,860  
; CURRENT FILING DATE: 2001-01-04  
; PRIOR APPLICATION NUMBER: 09/189,527  
; PRIOR FILING DATE: 1998-11-10  
; NUMBER OF SEQ IDS NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 195  
; TYPE: PPT  
; ORGANISM: homo sapiens  
US-10-037-860-7

Query Match	100.0%;	Score 996;	DB 13;	Length 195;
Best Local Similarity	100.0%;	Pred. No. 5.2e-92;		
Matches 195;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	PLALLEDWCRIMSVDBQKSLMTGTPADPEEAIEQVLOETLKSGRGYLLGKIFRKQEN	60	
Db	1	PLALLEDWCRIMSVDBQKSLMTGTPADPEEAIEQVLOETLKSGRGYLLGKIFRKQEN	60	
QY	61	ANAVLLELLEDTVSAIPSEVQKGGVWVKVFKTPNQDTEFLERLNLFLKEKQGVSGMF	120	
Db	61	ANAVLLELLEDTVSAIPSEVQKGGVWVKVFKTPNQDTEFLERLNLFLKEKQGVSGMF	120	



```

; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1
US-09-965-529-7

Query Match 46.8%; Score 466; DB 9; Length 353;
Best Local Similarity 47.9%; Pred. No. 3.7e-38;
Matches 93; Conservative 38; Mismatches 57; Indels 6; Gaps 4;

Qy 2 LALLEDCRIMSVDEQKSLMTVGIPADPFEAEIOEVLOETLKSIGRYLLGKIFRKQENA 61
Db 3 MTLLEDWCRCMDVNSQRALLVWGIPVNCDEAEIETLQAAMPQVS-YRMLGRMFWEENA 61

Qy 62 NAVLLELLEDDTDSAIPSEVOGKGVKVIKFTPNQDTEFLERLNLFLEKEGQTVSGMFR 121
Db 62 KAALLELTGAVDYAAIPREMPKGGVWKVLFKPTSDAEFLERLHLFLAREGTVQDVAR 121

Qy 122 ALGQEALSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLRVFSGSAVPAPPEESF 180
Db 122 VLGFQ--NPTPTP--GPMPAEMLNLYLDNVIQPLVESIWYKRLTLFSGRDIPOGGETF 177

Qy 181 EWLLEQATEIVKEW 194
Db 178 DPWLEHTNEVLEEW 191

RESULT 6
US-09-969-680A-7
; Sequence 7, Application US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7

Query Match 46.8%; Score 466; DB 10; Length 353;
Best Local Similarity 47.9%; Pred. No. 3.7e-38;
Matches 93; Conservative 38; Mismatches 57; Indels 6; Gaps 4;

Qy 2 LALLEDCRIMSVDEQKSLMTVGIPADPFEAEIOEVLOETLKSIGRYLLGKIFRKQENA 61
Db 3 MTLLEDWCRCMDVNSQRALLVWGIPVNCDEAEIETLQAAMPQVS-YRMLGRMFWEENA 61

Qy 62 NAVLLELLEDDTDSAIPSEVOGKGVKVIKFTPNQDTEFLERLNLFLEKEGQTVSGMFR 121
Db 62 KAALLELTGAVDYAAIPREMPKGGVWKVLFKPTSDAEFLERLHLFLAREGTVQDVAR 121

Qy 122 ALGQEALSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLRVFSGSAVPAPPEESF 180
Db 122 VLGFQ--NPTPTP--GPMPAEMLNLYLDNVIQPLVESIWYKRLTLFSGRDIPOGGETF 177

Qy 181 EWLLEQATEIVKEW 194
Db 178 DPWLEHTNEVLEEW 191

RESULT 7
US-11-048-692-7
; Sequence 7, Application US/11048692
; Publication No. US20050123990A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/11/048,692
; CURRENT FILING DATE: 2005-02-02
; PRIOR APPLICATION NUMBER: US/09/969,680
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 2483172CD1
US-11-048-692-7

Query Match 46.8%; Score 466; DB 20; Length 353;
Best Local Similarity 47.9%; Pred. No. 3.7e-38;
Matches 93; Conservative 38; Mismatches 57; Indels 6; Gaps 4;

Qy 2 LALLEDCRIMSVDEQKSLMTVGIPADPFEAEIOEVLOETLKSIGRYLLGKIFRKQENA 61
Db 3 MTLLEDWCRCMDVNSQRALLVWGIPVNCDEAEIETLQAAMPQVS-YRMLGRMFWEENA 61

Qy 62 NAVLLELLEDDTDSAIPSEVOGKGVKVIKFTPNQDTEFLERLNLFLEKEGQTVSGMFR 121
Db 62 KAALLELTGAVDYAAIPREMPKGGVWKVLFKPTSDAEFLERLHLFLAREGTVQDVAR 121

Qy 122 ALGQEALSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLRVFSGSAVPAPPEESF 180
Db 122 VLGFQ--NPTPTP--GPMPAEMLNLYLDNVIQPLVESIWYKRLTLFSGRDIPOGGETF 177

Qy 181 EWLLEQATEIVKEW 194
Db 178 DPWLEHTNEVLEEW 191

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RESULT 8	
US-10-037-860-13	
; Sequence 13, Application US/10037860	
; Publication No. US20020123114A1	
; GENERAL INFORMATION:	
; APPLICANT: Jerome B. Posner	
; APPLICANT: Josep O. Dalmau	
; APPLICANT: Myrna R. Rosenfeld	
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma	
; TITLE OF INVENTION: ANTIBODIES	
; FILE REFERENCE: 2581.1004-004	
; CURRENT APPLICATION NUMBER: US/10/037,860	
; CURRENT FILING DATE: 2001-01-04	
; PRIOR APPLICATION NUMBER: 09/189,527	
; PRIOR FILING DATE: 1998-11-10	
; NUMBER OF SEQ ID NOS: 14	
; SOFTWARE: FastSeq for Windows Version 4.0	
; SEQ ID NO 13	
; LENGTH: 463	
; TYPE: PRT	
; ORGANISM: homo sapiens	
US-10-037-860-13	
Query Match 46.4%; Score 462.5; DB 13; Length 463;	
Best Local Similarity 47.7%; Pred. No. 1.2e-37;	
Matches 93; Conservative 34; Mismatches 65; Indels 3; Gaps 2;	
Qy	1 PLALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLTSLGRLYLLGKIFRKQEN 60
Db	2 PLTLQDWCRCGEHLNTRCMLILGIPDCGDEFEETLQEACRHGRLGRYVIGRMFRREN 61
Qy	61 ANAVLLELLEDTVSAIPSEVQGGVWKVIFKTPNODTEFLERLNLFLKEGQTVSGMF 120
Db	62 AQAILLELAQIDVALLPREIPGKGGPWEIVKPRNSDGBFLNRLNRFLEERRTVSDMN 121
Qy	121 RALQGEALSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLRYVFGSAVPAPPEES 179
Db	122 RVLGSDTNCSPRTVISPEFWT--WAQTIGAAVQPLLQMLYRELRYVFSGNTISIPGALA 179
Qy	180 FEVWLEQATEIVKEM 194
Db	180 FDAWLEHTTEMLOWM 194
RESULT 9	
US-10-037-860-4	
; Sequence 4, Application US/10037860	
; Publication No. US20020123114A1	
; GENERAL INFORMATION:	
; APPLICANT: Jerome B. Posner	
; APPLICANT: Josep O. Dalmau	
; APPLICANT: Myrna R. Rosenfeld	
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma	
; TITLE OF INVENTION: ANTIBODIES	
; FILE REFERENCE: 2581.1004-004	
; CURRENT APPLICATION NUMBER: US/10/037,860	
; CURRENT FILING DATE: 2001-01-04	
; PRIOR APPLICATION NUMBER: 09/189,527	
; PRIOR FILING DATE: 1998-11-10	
; NUMBER OF SEQ ID NOS: 14	
; SOFTWARE: FastSeq for Windows Version 4.0	
; SEQ ID NO 4	
; LENGTH: 329	
; TYPE: PRT	
; ORGANISM: homo sapiens	
US-10-037-860-4	
Query Match 44.3%; Score 441; DB 13; Length 329;	
Best Local Similarity 46.4%; Pred. No. 1.1e-35;	
Matches 90; Conservative 37; Mismatches 61; Indels 6; Gaps 4;	
Qy	2 LALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLTSLGRLYLLGKIFRKQENA 61
US-10-037-860-7	
Db	3 MTLLEDWCRCMDVNSQRTLLVWGIPVNCDEASIEETLQAMPQVS-YRMLGRMFWREENA 61
Qy	62 NAVLLELLEDTVSAIPSEVQGGVWKVIFKTPNODTEFLERLNLFLKEGQTVSGMFR 121
Db	62 KAALLELTGAVDYAAIPREMPGKGGVWKVIFKTPSDAEFLERLHLFLAREGWTVDVAR 121
Qy	122 ALQGEALSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLRYVFGSAVPAPPEESF 180
Db	122 VLGFQ--NPTTP--GPMPAEMLVILNDVIOPLVESIWYKRLTLFSGKGHPRAWRGNF 177
Qy	181 FEVWLEQATEIVKEM 194
Db	178 DPWLEHTNEVLEEW 191
RESULT 10	
US-09-804-014A-40	
; Sequence 40, Application US/09804014A	
; Publication No. US20030064489A1	
; GENERAL INFORMATION:	
; APPLICANT: Li, Li	
; APPLICANT: Padigaru, Muralidhara	
; APPLICANT: Vernet, Corine	
; APPLICANT: Fernandes, Elma	
; APPLICANT: Shimkets, Richard	
; APPLICANT: Spaderna, Steven	
; APPLICANT: Majumder, Kumud	
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same	
; FILE REFERENCE: 15966-721 US	
; CURRENT APPLICATION NUMBER: US/09/804,014A	
; CURRENT FILING DATE: 2002-04-24	
; PRIOR APPLICATION NUMBER: 60/188,316	
; PRIOR FILING DATE: 2000-03-10	
; PRIOR APPLICATION NUMBER: 60/188,277	
; PRIOR FILING DATE: 2000-03-10	
; PRIOR APPLICATION NUMBER: 60/189,139	
; PRIOR FILING DATE: 2000-03-14	
; PRIOR APPLICATION NUMBER: 60/189,140	
; PRIOR FILING DATE: 2000-03-14	
; PRIOR APPLICATION NUMBER: 60/190,401	
; PRIOR FILING DATE: 2000-03-17	
; PRIOR APPLICATION NUMBER: 60/190,231	
; PRIOR FILING DATE: 2000-03-17	
; NUMBER OF SEQ ID NOS: 75	
; SOFTWARE: PatentIn Ver. 2.1	
; SEQ ID NO 40	
; LENGTH: 318	
; TYPE: PRT	
; ORGANISM: Homo sapiens	
; FEATURE:	
; NAME/KEY: VARIANT	
; LOCATION: (20)	
; OTHER INFORMATION: Wherein Xaa is any amino acid as defined in the	
; OTHER INFORMATION: specification	
US-09-804-014A-40	
Query Match 44.2%; Score 440; DB 10; Length 318;	
Best Local Similarity 46.4%; Pred. No. 1.3e-35;	
Matches 90; Conservative 36; Mismatches 62; Indels 6; Gaps 4;	
Qy	2 LALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLTSLGRLYLLGKIFRKQENA 61
Db	3 MTLLEDWCRCMDVNSQRTLLVWGIPVNCDEASIEETLQAMPQVS-YRMLGRMFWREENA 61
Qy	62 NAVLLELLEDTVSAIPSEVQGGVWKVIFKTPNODTEFLERLNLFLKEGQTVSGMFR 121
Db	62 KAALLELTGAVDYAAIPREMPGKGGVWKVIFKTPSDAEFLERLHLFLAREGWTVDVAR 121
Qy	122 ALQGEALSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLRYVFGSAVPAPPEESF 180
Db	122 VLGFQ--NPTTP--GPMPAEMLVILNDVIOPLVESIWYKRLTLFSGKGHPRAWRGNF 177

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QY 181 EVWLEQATEIVKSW 194
Db 178 DPMLEHTNEVLEEW 191

RESULT 11
US-09-804-014A-73
; Sequence 73, Application US/09804014A
; Publication NO. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804, 014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 74
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-74

Query Match 43.8%; Score 436; DB 10; Length 312;
Best Local Similarity 46.9%; Pred. No. 3.3e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLEDCWCRIMSVDEQKSLMTVGIPADFEAEIQEVLQETKSLGRLYLLGKIFRKOENA 61
Db 3 LRLEDCWCRGMDNPNRKALLIAGISQSCSVAIEEALQAGLAPLGRLYLLGMRFRDENR 62
QY 62 NAVLLELLEDTDVSAPSEVQGGVWVKVIFKTPNODTFLERLNLFLEKEGQTVSGMFR 121
Db 63 KVALVGLTAETSHALVPKEIPKGGIWRVIFKPPDPDNTFLSRINEFLAGEGTMVGLSR 122
QY 122 ALGQEALSPATVPCISPELLAHLHGQAMAHAPQPLP-MRYRKLRFVSGSAYPAPEESF 180
Db 123 ALGHENGSLDPEQGMIPENWAPMLAQL-EALQPALQCLKYKRLRVFSGRESPEPEESF 181
QY 181 EVWLEQATEIVKSW 194
Db 182 GRWFFHTTQMIKAW 195

RESULT 12
US-09-804-014A-74
; Sequence 74, Application US/09804014A
; Publication NO. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804, 014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 73
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-73

Query Match 43.8%; Score 436; DB 10; Length 312;
Best Local Similarity 46.9%; Pred. No. 3.3e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLEDCWCRIMSVDEQKSLMTVGIPADFEAEIQEVLQETKSLGRLYLLGKIFRKOENA 61
Db 3 LRLEDCWCRGMDNPNRKALLIAGISQSCSVAIEEALQAGLAPLGRLYLLGMRFRDENR 62
QY 62 NAVLLELLEDTDVSAPSEVQGGVWVKVIFKTPNODTFLERLNLFLEKEGQTVSGMFR 121
Db 63 KVALVGLTAETSHALVPKEIPKGGIWRVIFKPPDPDNTFLSRINEFLAGEGTMVGLSR 122
QY 122 ALGQEALSPATVPCISPELLAHLHGQAMAHAPQPLP-MRYRKLRFVSGSAYPAPEESF 180
Db 123 ALGHENGSLDPEQGMIPENWAPMLAQL-EALQPALQCLKYKRLRVFSGRESPEPEESF 181
QY 181 EVWLEQATEIVKSW 194
Db 182 GRWFFHTTQMIKAW 195

RESULT 13
US-09-804-014A-39
; Sequence 39, Application US/09804014A
; Publication NO. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804, 014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 74
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-74
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; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-39

Query Match      43.8%; Score 436; DB 10; Length 321;
Best Local Similarity 46.9%; Pred. No. 3.4e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

Qy 2 LALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLQETLKSIGRYRLGKIFRQENA 61
Db 3 LRLLEDWCRGMNPRKALLIAGISQSCSVAEIEEALQAGLAPLGEYRLGRMFRDNR 62
Qy 62 NAVLELLEDTDVSAIPSEVQGGVWKVIFKTPNQDTEFLERLNLFLKEGOTVSGMFR 121
Db 63 KVALVGLTAETSHALVPKEIPGKGIWRVIFKPPDPDNTFLSRNLFAGEGTVGELSR 122
Qy 122 ALGQEALSPATVPCISPELLAHLGQAMAHAPQPLP-MRYRKLRVFGSAVPAPBEESF 180
Db 123 ALGHENGLDPEQGMIPEMWAPMLAQAL-EALQALQCLKYLKRVFSGRESPEEGEEF 181
Qy 181 EVWLEQATEIVKEW 194
Db 182 GRWMFHTTQMIKAW 195

RESULT 14
US-09-965-529-1
; Sequence 1, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1
US-09-965-529-1

Query Match      43.8%; Score 436; DB 9; Length 351;
Best Local Similarity 46.9%; Pred. No. 3.9e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

Qy 2 LALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLQETLKSIGRYRLGKIFRQENA 61
Db 3 LRLLEDWCRGMNPRKALLIAGISQSCSVAEIEEALQAGLAPLGEYRLGRMFRDNR 62
Qy 62 NAVLELLEDTDVSAIPSEVQGGVWKVIFKTPNQDTEFLERLNLFLKEGOTVSGMFR 121
Db 63 KVALVGLTAETSHALVPKEIPGKGIWRVIFKPPDPDNTFLSRNLFAGEGTVGELSR 122

; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-16

Query Match      43.8%; Score 436; DB 10; Length 321;
Best Local Similarity 46.9%; Pred. No. 3.9e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

Qy 2 LALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLQETLKSIGRYRLGKIFRQENA 61
Db 3 LRLLEDWCRGMNPRKALLIAGISQSCSVAEIEEALQAGLAPLGEYRLGRMFRDNR 62
Qy 62 NAVLELLEDTDVSAIPSEVQGGVWKVIFKTPNQDTEFLERLNLFLKEGOTVSGMFR 121
Db 63 KVALVGLTAETSHALVPKEIPGKGIWRVIFKPPDPDNTFLSRNLFAGEGTVGELSR 122
Qy 122 ALGQEALSPATVPCISPELLAHLGQAMAHAPQPLP-MRYRKLRVFGSAVPAPBEESF 180
Db 123 ALGHENGLDPEQGMIPEMWAPMLAQAL-EALQALQCLKYLKRVFSGRESPEEGEEF 181
Qy 181 EVWLEQATEIVKEW 194
Db 182 GRWMFHTTQMIKAW 195

RESULT 15
US-09-804-014A-16
; Sequence 16, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-16

Query Match      43.8%; Score 436; DB 10; Length 351;
Best Local Similarity 46.9%; Pred. No. 3.9e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

Qy 2 LALLEDCRIMSVDEQKSLMVTGIPADFEAEIQEVLQETLKSIGRYRLGKIFRQENA 61
Db 3 LRLLEDWCRGMNPRKALLIAGISQSCSVAEIEEALQAGLAPLGEYRLGRMFRDNR 62
Qy 62 NAVLELLEDTDVSAIPSEVQGGVWKVIFKTPNQDTEFLERLNLFLKEGOTVSGMFR 121
Db 63 KVALVGLTAETSHALVPKEIPGKGIWRVIFKPPDPDNTFLSRNLFAGEGTVGELSR 122
Qy 122 ALGQEALSPATVPCISPELLAHLGQAMAHAPQPLP-MRYRKLRVFGSAVPAPBEESF 180
Db 123 ALGHENGLDPEQGMIPEMWAPMLAQAL-EALQALQCLKYLKRVFSGRESPEEGEEF 181
Qy 181 EVWLEQATEIVKEW 194
Db 182 GRWMFHTTQMIKAW 195

Search completed: August 26, 2005, 17:21:26
Job time : 52.8076 secs
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:35:24 ; Search time 11.2354 Seconds  
(without alignments)  
989.972 Million cell updates/sec

Title: US-10-037-860-9  
 Perfect score: 766  
 Sequence: 1 DLMHIVQADNPISVVECLE.....SIEPERRDGYGRWNHEGDD 149

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 su

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3: /cgn2_6/ptodata/1/iaa/6A COMB pep.*
4: /cgn2_6/ptodata/1/iaa/6B COMB pep.*
5: /cgn2_6/ptodata/1/iaa/PTUS COMB pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1 pep.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	323	42.2	462	3	US-09-189-527-13	Sequence 13, Appl
2	256.5	33.5	329	4	US-09-189-527-4	Sequence 4, Appl
3	94.5	12.3	577	4	US-09-949-016-10835	Sequence 10835, A
4	89.5	11.7	800	4	US-09-553-790A-2	Sequence 2, Appl
5	89.5	11.7	800	4	US-09-202-047A-2	Sequence 4, Appl
6	87	11.4	545	4	US-09-908-988B-4	Sequence 7561, Ap
7	84.5	11.0	1307	4	US-09-949-016-7561	Sequence 94, Appl
8	81.5	10.6	1898	1	US-08-056-200-94	Sequence 94, Appl
9	81.5	10.6	1898	2	US-08-800-644-94	Sequence 94, Appl
10	81.5	10.6	1898	4	US-09-538-092-1280	Sequence 1280, Ap
11	80.5	10.5	531	4	US-09-248-796A-20235	Sequence 20235, A
12	80	10.4	568	4	US-09-949-016-10896	Sequence 10896, A
13	80	10.4	587	4	US-09-538-092-1130	Sequence 1130, Ap
14	80	10.4	825	3	US-09-540-824-26	Sequence 26, Appl
15	77.5	10.1	620	4	US-09-538-092-1285	Sequence 1285, Ap
16	77	10.1	237	2	US-08-469-537A-85	Sequence 85, Appl
17	77	10.1	370	3	US-08-857-076-107	Sequence 107, App
18	77	10.1	661	4	US-09-107-532A-3677	Sequence 3677, Ap
19	77	10.1	1367	2	US-08-249-689C-2	Sequence 2, Appl
20	77	10.1	1367	2	US-08-625-819-2	Sequence 2, Appl
21	77	10.1	1367	3	US-08-746-559A-2	Sequence 2, Appl
22	77	10.1	1367	3	US-08-864-641B-18	Sequence 18, Appl
23	77	10.1	1367	4	US-09-343-551-2	Sequence 2, Appl
24	77	10.1	1367	4	US-09-949-001-18	Sequence 18, Appl
25	77	10.1	1377	4	US-09-949-001-21	Sequence 21, Appl
26	76	9.9	754	4	US-09-585-173B-51	Sequence 51, Appl
27	75.5	9.9	503	4	US-09-270-767-45438	Sequence 45438, A

## ALIGNMENTS

```

RESULT 1
US-09-189-527-13
; Sequence 13, Application US/09189527A
; Patent No. 6387639
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma
; TITLE OF INVENTION: Antibodies
; FILE REFERENCE: SLK98-01
; CURRENT APPLICATION NUMBER: US/09/189,527A
; CURRENT FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 462
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-189-527-13

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Query Match	42.2%;	Score 323;	DB 3;	Length 462;
Best Local Similarity	52.7%;	Pred. No. 4.1e-29;		
Matches	68;	Conservative 26;	Mismatches 33;	Indels 2; Gaps 1;
QY	6	VOADNPSIVSECLAPKQVFGSLSSRRTAQVRYLKPVOEAGEKYSAYVLRLETLRR	AV	65
DB	214	LRASNASITVEECLAAQVGFVESHKTAQVKLKAYOAGEKVSSFVLRLEPLQ	RAV	273
QY	66	ERRATPRIADVRLQVNMAGATNQMMLWCRLKLDQGPSPFLELMKVIREEEEE	EAS	125
DB	274	ENNVVSRNVNTRLKRVLSGATLPDKLKDULKMKQRKPGCFGLAVKLLREEE	EWEAT	333
QY	126	F--ENESIE	132	
DB	334	LGPFRESLE	342	

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RESULT 2
US-09-189-527-4
; Sequence 4, Application US/09189527A
; Patent No. 6387639
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Josep O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma family Polypeptides and Anti-Ma
; TITLE OF INVENTION: Antibodies
; FILE REFERENCE: SLK98-01
; CURRENT APPLICATION NUMBER: US/09/189,527A

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; CURRENT FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-189-527-4

Query Match      33.5%; Score 256.5; DB 3; Length 329;
Best Local Similarity 46.6%; Pred. No. 1.5e-21;
Matches 54; Conservative 25; Mismatches 30; Indels 7; Gaps 2;

Qy 1  DLHIVQADNPISVSECLFAFKQVFGSLRRRTAQVRYLKPQYEGEKGVSAYVLRLETL 60
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 212 DVIRILKSNPPIATTAECALALEQVFGSVSSRDAQIKFLNTYQNPGKLSAYVIRLEPL 271

Qy 61  LRRAVEKRAIPRIADQVRLEQVMAGA-----TLNQMLWCRRLRELKDGPPSPFILEL 112
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 272 LQKVVEKAIDKONVQARLEQVITAGANHSAGAIRRQLWL---TCAGEGPGKPLSV 324

RESULT 3
US-09-949-016-10835
; Sequence 10835, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10835
; LENGTH: 577
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10835

Query Match      12.3%; Score 94.5; DB 4; Length 577;
Best Local Similarity 23.5%; Pred. No. 0.03; 53; Indels 35; Gaps 5;
Matches 36; Conservative 29; Mismatches 53; Indels 35; Gaps 5;

Qy 4  HIQVADNPISVSECLFAFKQVFGSLRRRTAQVRYLKPQYEGEKGVS-----A 52
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 332 HIFEMDDNDQKEEIRKYSIIYGRFDSK-----REGKQLSLHSLTINEAAQ 380

Qy 53  YVLRLETLRRAVEKRAIPRIADQVRLEQVMAGATLN--QMLWCRRLRELK----- 102
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 381 FCWRDNTLLRRVELFSLRQVARESTYLSLKGSLRHPBELGPPPLKLLKQVGEQSHP 440

Qy 103 --QGPPSPFLELMKVIREE--EEESAFENESIE 132
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 441 EIQQPPGPESYVPPYRPSLEEDSASLSGESLD 473

RESULT 4
US-09-555-790A-2
; Sequence 2, Application US/09555790A
; Patent No. 6555652
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo et al.
; TITLE OF INVENTION: TUMOR ANTIGEN PEPTIDE DERIVATIVES
; FILE REFERENCE: 0020-4716p
; CURRENT APPLICATION NUMBER: US/09/555,790A
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; CURRENT FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 800
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-555-790A-2

Query Match      11.7%; Score 89.5; DB 4; Length 800;
Best Local Similarity 25.3%; Pred. No. 0.18;
Matches 37; Conservative 25; Mismatches 51; Indels 33; Gaps 6;

Qy 5  IVQADNPISVSECLFAFKQVFGSLRRRTAQVRYLKPQYEGEKGVSAYVLRLETLRRA 64
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 489 VLEEDAEAELELQKLE-----KGRRLRQLQQLRDSGKVKVEIVKKLESRQGW 539

Qy 65  VEKRAIPRIADQVRLEQVMAGATLNQMLWCR--LRELKDGPPSPFLELMKVIREEEEE 123
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 540 EEDE-----DPERKGAIVFNATSE---FCRTLGEIPTYG-----LAGNREQEEL 581

Qy 124 ASPENESIEPERDGYGRWNHEGDD 149
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 582 MDPERD-----EERSANGGESDGE 602

RESULT 5
US-09-202-047A-2
; Sequence 2, Application US/09202047A
; Patent No. 6815531
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; APPLICANT: SHICHIJO, Shigeki
; APPLICANT: IMAI, Yasuhisa
; TITLE OF INVENTION: TUMOR ANTIGEN PROTEINS, GENES THEREFOR, AND TUMOR
; TITLE OF INVENTION: ANTIGEN PEPTIDES
; FILE REFERENCE: 0020-4491P
; CURRENT APPLICATION NUMBER: US/09/202,047A
; CURRENT FILING DATE: 1998-12-07
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 800
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-202-047A-2

Query Match      11.7%; Score 89.5; DB 4; Length 800;
Best Local Similarity 25.3%; Pred. No. 0.18;
Matches 37; Conservative 25; Mismatches 51; Indels 33; Gaps 6;

Qy 5  IVQADNPISVSECLFAFKQVFGSLRRRTAQVRYLKPQYEGEKGVSAYVLRLETLRRA 64
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 489 VLEEDAEAELELQKLE-----KGRRLRQLQQLRDSGKVKVEIVKKLESRQGW 539

Qy 65  VEKRAIPRIADQVRLEQVMAGATLNQMLWCR--LRELKDGPPSPFLELMKVIREEEEE 123
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 540 EEDE-----DPERKGAIVFNATSE---FCRTLGEIPTYG-----LAGNREQEEL 581

Qy 124 ASPENESIEPERDGYGRWNHEGDD 149
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 582 MDPERD-----EERSANGGESDGE 602

RESULT 6
US-09-908-988B-4
; Sequence 4, Application US/09908988B
; Patent No. 6740751
; GENERAL INFORMATION:
; APPLICANT: OLSON, ERIC
; APPLICANT: SPENCER, JEFFREY A.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR STABILIZING MICROTUBULES
; TITLE OF INVENTION: IN STRIATED MUSCLE CELLS
```

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; FILE REFERENCE: MYOG:028US
; CURRENT APPLICATION NUMBER: US/09/908,988B
; CURRENT FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/219,020
; PRIOR FILING DATE: 2000-07-18
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-908-988B--4

Query Match      11.4%; Score 87; DB 4; Length 545;
Best Local Similarity 25.0%; Pred. No. 0.21;
Matches 44; Conservative 23; Mismatches 49; Indels 60; Gaps 8;

Qy 5 IVQDNPSISVEEC-----LEAFKQVFGSLRSRTAQVRYLKPQESG-----47
Db 190 ISQLEDTCKTIECCRKQKQDCEKFDHLYGILEERKTEMTQAITRTOEEKLEHVRTLIR 249
Qy 48 -----EKVS-----AVVLRLETLRRRAVEKRAIPRIADQVRLEQ---82
Db 250 KYSDHLENVSKLVESGIGFQWDEPEMAVFLQNAKTLLOKIVE---ASKAFQMEKLEQGYE 305
Qy 83 VMAGATLNQMLWCRLRLKDKQGPSPFLMLKVIREEEEASPENESIEPEERD 138
Db 306 IMSNFTVLN-----REEK-----IIREIDFSREEEEDAGEID--REGEGED 347

RESULT 7
US-09-949-016-7561
; Sequence 7561, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7561
; LENGTH: 1307
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7561

Query Match      11.0%; Score 84.5; DB 4; Length 1307;
Best Local Similarity 19.0%; Pred. No. 1.4;
Matches 39; Conservative 25; Mismatches 56; Indels 85; Gaps 6;

Qy 16 EECLEAFKQVFGSLRSRTAQVRYLKPQESGKVSAYV-----54
Db 880 EEQNTMTKAVLEEKEKDLANTGKWLQDQENESLSKAHVQVAQHNLKEASSASQPEELE 939
Qy 55 -----LRLLETLRRRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLRLKDKQ 104
Db 940 IVLKENEKELKLEAMLKRESLSSKTLQDQVDE-----NKLFSQIEQLKQNN 991
Qy 105 -----PPSFLELMKVIREEEEASPFNE-----STEEPEERD-----138
Db 992 YQASSFPFHE--ELLKVIISERKEISGLWNELDSLKDAVEHORKNNRQOQVAVELE 1049
Qy 139 -----GYGRWNH 145
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Db 1050 AKEVLKKLFPKVSVPNSNLSYGEWLH 1074

RESULT 8
US-08-056-200-94
; Sequence 94, Application US/08056200
; Patent No. 5616500
; GENERAL INFORMATION:
; APPLICANT: Steinert, Peter M.
; APPLICANT: Lee, Seung-Chul
; APPLICANT: Kim, In-Gyu
; APPLICANT: Chung, Soo-Il
; APPLICANT: Park, Sang-Chul
; TITLE OF INVENTION: Trichohyalin and Transglutaminase-3 and
; TITLE OF INVENTION: Methods of Using Same
; NUMBER OF SEQUENCES: 117
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson & Bear
; STREET: 620 Newport Center Drive, Sixteenth Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/056,200
; FILING DATE: 30-APR-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fedrick, Michael F.
; REGISTRATION NUMBER: 36,799
; REFERENCE/DOCKET NUMBER: NIH054.001A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (714) 760-0404
; TELEFAX: (714) 760-9502
; INFORMATION FOR SEQ ID NO: 94:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1898 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-056-200-94

Query Match      10.6%; Score 81.5; DB 1; Length 1898;
Best Local Similarity 28.9%; Pred. No. 5.4;
Matches 35; Conservative 16; Mismatches 45; Indels 25; Gaps 4;

Qy 20 EAFKQVFGSLRSRTAQVR---YLPKYQESGKVSAYVLRLETLRRRAVEKRAIPRIAD 76
Db 563 ERLEQLLKREEEKRLEQRERQRLKEQEE-----RRDQLLKREERQOQLKREQ 613
Qy 77 QVRLEQVMAGATLNQMLWCRLRLKDKQGPSPFLMLKVIREEEEASPENESIEPEE 136
Db 614 ERLEQLLKREEVERL---EQERRDE-----RLKREPEBERRHLLKSEQEE 660
Qy 137 R 137
Db 661 R 661

RESULT 9
US-08-800-644-94
; Sequence 94, Application US/08800644
; Patent No. 5958752
; GENERAL INFORMATION:
; APPLICANT: Steinert, Peter M.
; APPLICANT: Lee, Seung-Chul
; APPLICANT: Kim, In-Gyu
; APPLICANT: Chung, Soo-Il
```

APPLICANT: Park, Sang-Chul  
TITLE OF INVENTION: Trichohyalin and Transglutaminase-3 and  
METHODS OF USING SAME  
NUMBER OF SEQUENCES: 117  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Knobbe, Martens, Olson & Bear  
STREET: 620 Newport Center Drive, Sixteenth Floor  
CITY: Newport Beach  
STATE: CA  
COUNTRY: U.S.A.  
ZIP: 92660  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,644  
FILING DATE: 14-FEB-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/056,200  
FILING DATE: 30-APR-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Pedrick, Michael F.  
REGISTRATION NUMBER: 36,799  
REFERENCE/DOCKET NUMBER: NIH054.001A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (714) 760-0404  
TELEFAX: (714) 760-9502  
INFORMATION FOR SEQ ID NO: 94:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1898 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-800-644-94

Query Match 10.6%; Score 81.5; DB 2; Length 1898;  
Best Local Similarity 28.9%; Pred. No. 5.4;  
Matches 35; Conservative 16; Mismatches 45; Indels 25; Gaps 4;  
QY 20 EAFKQVFGSLESRTAQR---YLKPYQEGEKGVSAYVLRLETLRRRAVEKRAIPRIAD 76  
DB 563 ERLEQLLKREEEKRLEQERQRLKREQE-----RRDQLLKREERQOQLKREQ 613  
QY 77 QVRLEQVMAGATNQLWCRLRELKDOGPPSPFLMLKVIREEEERASFENESIEEP 136  
DB 614 EERLEQLKREEVERL---EQEERDE-----RLKREPEERHRLKSEEQEE 660  
QY 137 R 137  
DB 661 R 661

RESULT 10  
US-09-538-092-1280  
Sequence 1280, Application US/09538092  
Patent No. 6753314  
GENERAL INFORMATION:  
APPLICANT: Giot, Loic  
APPLICANT: Mansfield, Traci A.  
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same  
FILE REFERENCE: 15966-542  
CURRENT APPLICATION NUMBER: US/09/538,092  
CURRENT FILING DATE: 2000-03-29  
PRIOR APPLICATION NUMBER: 60/127,352  
PRIOR FILING DATE: 1999-04-01  
PRIOR APPLICATION NUMBER: 60/178,965  
PRIOR FILING DATE: 2000-02-01  
NUMBER OF SEQ ID NOS: 1387  
SOFTWARE: CuraPatSeqFormatter Version 0.9  
SEQ ID NO 1280

LENGTH: 1898  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (0)\_(0)  
OTHER INFORMATION: Polypeptide Accession Number Q07283  
US-09-538-092-1280

Query Match 10.6%; Score 81.5; DB 4; Length 1898;  
Best Local Similarity 28.9%; Pred. No. 5.4;  
Matches 35; Conservative 16; Mismatches 45; Indels 25; Gaps 4;  
QY 20 EAFKQVFGSLESRTAQR---YLKPYQEGEKGVSAYVLRLETLRRRAVEKRAIPRIAD 76  
DB 563 ERLEQLLKREEEKRLEQERQRLKREQE-----RRDQLLKREERQOQLKREQ 613  
QY 77 QVRLEQVMAGATNQLWCRLRELKDOGPPSPFLMLKVIREEEERASFENESIEEP 136  
DB 614 EERLEQLKREEVERL---EQEERDE-----RLKREPEERHRLKSEEQEE 660  
QY 137 R 137  
DB 661 R 661

RESULT 11  
US-09-248-796A-20235  
Sequence 20235, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 20235  
LENGTH: 531  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-20235

Query Match 10.5%; Score 80.5; DB 4; Length 531;  
Best Local Similarity 23.9%; Pred. No. 1.1;  
Matches 27; Conservative 21; Mismatches 34; Indels 31; Gaps 4;  
QY 56 RLETLRRRAVEKRAIPRIADQVRLQVMAGATNQLWCRLRELKDOGPPSPF-----109  
DB 15 RTTTRMREGIKKKAARRRKDKKIAXK-----DVTW-KSRKSDPGIPASFPYKDKI 65  
QY 110 -----LELMKVIREEEERASFENESIEEPEERDCYGRWNHGD 148  
DB 66 ITELEGRRIEKERREQLKQEQERQALARGEIVEDDDDEDDQ--BEGD 116

RESULT 12  
US-09-949-016-10896  
Sequence 10896, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755

```

; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10896
; LENGTH: 568
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10896

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Query Match	10.4%;	Score 80;	DB 4;	Length 568;
Best Local Similarity	26.6%;	Pred. No. 1.4;		
Matches 37;	Conservative 22;	Mismatches 60;	Indels 20;	Gaps 5;
QY	12	SISVEECLEAFKQV----	FGSLERRTAQVRYLKPQYEEGKVSAYVRLTETLLRRAVEK	67
Db	297	AVAAETLKTLRQVEVNF	GDCLVRSKGVAVAIADAI	GGGLPKLXELNLSFCEIKRDA-- 354
QY	68	RAIPRRATQVRLEQV--	MAGATNOMLWCRLRELKQDQPPPSFLELMKVIR-----	EE 119
Db	355	LAVAEAMADKAELEKLD	INGNTLTGEECEQIQEVLG-----	FNMAKVLASLSDDEE 408
QY	120	EESEASFENSIIEP	PERD	138
Db	409	EESEGESEEEAE	EEEEED	427

```

RESULT 13
US-09-538-092-1130
/ Sequence 1130, Application US/09538092
/ Patent No. 6753314
/ GENERAL INFORMATION:
/ APPLICANT: Giot, Loic
/ APPLICANT: Mansfield, Traci A.
/ TITLE OF INVENTION: Protein-Protein C
/ FILE REFERENCE: 15966-542
/ CURRENT APPLICATION NUMBER: US/09/538
/ CURRENT FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: 60/127,352
/ PRIOR FILING DATE: 1999-04-01
/ PRIOR APPLICATION NUMBER: 60/178,965
/ PRIOR FILING DATE: 2000-02-01
/ NUMBER OF SEQ ID NOS: 1387
/ SOFTWARE: CuratSeqFormatter Version
/ SEQ ID NO 1130
/ LENGTH: 587
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (0)..(0)
/ OTHER INFORMATION: Polypeptide Access
US-09-538-092-1130

```

Query Match	10.4%	Score 80;	DB 4;	Length 587;
Best Local Similarity	26.6%	Pred. No. 1.5;		
Matches 37; Conservative	22;	Mismatches 60;	Indels 20;	Gaps 5;

  

Qy	12	SISVEECLEAFKQV----	FGSLSRRTAQVRYLKPQYEGEGKVSAYVLRLETLLRRAVEK	67
		: : : :   : :	: : : :   : :	
Db	253	AVMAAETLKTIRQVEVNF	GDCLVRSKGAVAIADAIRGGIPKUKELNLSFCEIKRDA--	310
		: : : :   : :	: : : :   : :	
Qy	68	RAIPRRITQVRLEQV--	MAGATLQMCLWRLELKDQGPSPFLELMKVIR-----EE	119
		: : : :   : :	: : : :   : :	
Db	311	LAVAEAMADKALEKLD	INGTLGEECEQLQEVLEG-----FNMAKVLASLSDDEDEE	364
		: : : :   : :	: : : :   : :	
Qy	120	EEEEASFENESIEE	PERD	138
Db	365	EEEEEEEEEEEEE	EEEEED	383

```

RESULT 14
US-09-540-824-26
; Sequence 26, Application US/09540824
; Patent No. 6383753
; GENERAL INFORMATION:
; APPLICANT: Thiele, Dennis
; APPLICANT: Liu, Phillip
; TITLE OF INVENTION: No. 6383753el Yeast
; FILE REFERENCE: UM-04266
; CURRENT APPLICATION NUMBER: US/09/540,824
; CURRENT FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 26
; LENGTH: 825
; TYPE: PRT
; ORGANISM: Schizosaccharomyces pombe
US-09-540-824-26

```

```
Query Match      10.4%; Score 80; DB 3; Length 925;  
Best Local Similarity 25.8%; Pred.No. 2.4;  
Matches 33; Conservative 25; Mismatches 32; Indels 38; Gaps 8;
```

Qy      30 ESRTAQVRLKPVQEGEKVSAVVLRLETLRRRAV-EKKAIP-RIIADQVRLEQQWAGA 87  
         :: : : : :: : | : : : ||| : : : : :  
Db       253 KASKSGIKTORPIISDGD-----ARYDSFVEVMFKRAHETERTKTLEEALQAHEAD- 305  
         ||| : ||| : | : : : : : : : : : : :  
Qy       88 TLNQLMCLRRELKLKDQPSPSFLMLMKVIR-BEEEEEEASPENESIEPEERD---GYGR- 142  
         ||||| : ||| : : : : : : : : : : : :  
Db       306 -----RURELEDQ-----RISMWEHYQEDSASEAGSI EDEQATDNVFGKGK 347

Qy     143 -----WN 144  
        ==  
Db     348 QENEENWN 355

```

RESULT 15
US-09-538-092-1285
; Sequence 1285, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 1285
; LENGTH: 620
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number Q08379
; US-09-538-092-1285

```

```

Query Match      10.1%; Score 77.5; DB 4; Length 620;
Best Local Similarity 25.0%; Pred. No. 3.2;
Matches 35; Conservative 26; Mismatches 48; Indels 31; Gaps 5;

Qy 15 VEECLEAFKQVFGSLRRRTAQRVYLKPYQEEGKVSAY-----VLRLETLRRAV- 65
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 212 LKETVELKSEAFGLQOQRDQYLGLHQY-----VAAYQQLTSEKVELHNLQLLTQLV 265
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 66 -----EKRAIPRRADQVR-----LEQVAGATLNQMLWCRLEKLDQGGPPPSFLMKV 115

```

```
Db      266 DQLQQEAGKVAEMARQELQETQERLEAATQONQOLRAQLSIMAHPG-----EGDGL 319
Qy      116 IREEEEEASFENESIEEPE 135
Db      320 DREEEDEEEEEEA VAPQ 339
```

Search completed: August 26, 2005, 16:50:24  
Job time : 12.2354 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 16:45:49 ; Search time 39.5863 Seconds  
(without alignments)  
1478.945 Million cell updates/sec

Title: US-10-037-860-9

Perfect score: 766

Sequence: 1 DLWHIVQADNPISVEECLE.....SIEPPEPDGYGRWNHGGD 149

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications\_AA.\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10E\_PUBCOMB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US11A\_PUBCOMB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 21: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 22: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	766	100.0	149	13	US-10-037-860-9
2	758	99.0	364	17	US-10-504-329-3
3	755	98.6	283	13	US-10-037-860-11
4	323	42.2	463	13	US-10-037-860-13
5	295.5	38.6	353	9	US-09-965-529-7
6	295.5	38.6	353	10	US-09-969-680A-7
7	295.5	38.6	353	20	US-11-048-692-7
8	287	37.5	452	16	US-10-408-765A-2385
9	277	36.2	399	15	US-10-094-749-1378
10	271.5	35.4	351	9	US-09-965-529-1
11	271.5	35.4	351	10	US-09-804-014A-16

12	271.5	35.4	351	10	US-09-969-680A-1	Sequence 1, Appli
13	271.5	35.4	351	15	US-10-341-434-10	Sequence 10, Appli
14	271.5	35.4	351	20	US-11-048-692-1	Sequence 1, Appli
15	256.5	33.5	329	13	US-10-037-860-4	Sequence 4, Appli
16	255	33.3	318	10	US-09-804-014A-40	Sequence 40, Appli
17	247.5	32.3	403	15	US-10-094-466-38	Sequence 38, Appli
18	240	31.3	337	15	US-10-296-115-1208	Sequence 1208, Ap
19	237	30.9	402	17	US-10-959-539-26	Sequence 26, Appli
20	235	30.7	321	10	US-09-804-014A-39	Sequence 39, Appli
21	235	29.4	312	10	US-09-804-014A-73	Sequence 73, Appli
22	225	29.4	312	10	US-09-804-014A-74	Sequence 74, Appli
23	97.5	12.7	218	15	US-10-094-749-2881	Sequence 2881, Ap
24	96.5	12.6	542	15	US-10-205-331-57	Sequence 57, Appli
25	95.5	12.5	407	16	US-10-755-889-122	Sequence 122, App
26	94.5	12.3	525	16	US-10-723-860-2125	Sequence 2125, App
27	93.5	12.2	402	17	US-10-732-923-534	Sequence 534, App
28	93.5	12.2	544	16	US-10-723-860-2599	Sequence 2599, Ap
29	93.5	12.2	544	18	US-10-756-149-5421	Sequence 5421, Ap
30	93.5	12.2	620	16	US-10-437-963-158544	Sequence 158544,
31	91.5	11.9	346	15	US-10-310-154-448	Sequence 448, App
32	90	11.7	592	15	US-10-438-339-8	Sequence 8, Appli
33	90	11.7	592	15	US-10-416-477-8	Sequence 8, Appli
34	90	11.7	592	17	US-10-754-829A-8	Sequence 8, Appli
35	89.5	11.7	760	16	US-10-739-930-6736	Sequence 6736, Ap
36	89.5	11.7	800	17	US-10-921-110-2	Sequence 2, Appli
37	89.5	11.7	800	17	US-10-959-539-51	Sequence 51, Appli
38	89	11.6	1474	16	US-10-437-963-187531	Sequence 187531,
39	87.5	11.4	2552	16	US-10-437-963-129734	Sequence 129734,
40	87	11.4	545	9	US-09-908-988B-4	Sequence 4, Appli
41	87	11.4	545	16	US-10-775-649-4	Sequence 4, Appli
42	87	11.4	545	16	US-10-775-627-4	Sequence 4, Appli
43	84.5	11.0	1300	16	US-10-408-765A-257	Sequence 257, App
44	83.5	10.9	631	17	US-10-723-518-3	Sequence 3, Appli
45	83.5	10.9	631	18	US-10-756-149-4680	Sequence 4680, Ap

#### ALIGNMENTS

RESULT 1  
US-10-037-860-9  
; Sequence 9, Application US/10037860  
; Publication NO. US20020123114A1  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma  
; TITLE OF INVENTION: ANTIBODIES  
; FILE REFERENCE: 2581.1004-004  
; CURRENT APPLICATION NUMBER: US/10/037,860  
; CURRENT FILING DATE: 2001-01-04  
; PRIOR APPLICATION NUMBER: 09/189,527  
; PRIOR FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-10-037-860-9

Query Match	100.0%	Score 766;	DB 13;	Length 149;
Best Local Similarity	100.0%	Pred. No. 6.2e-70;		
Matches 149;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	DLWHIVQADNPISVEECLEAFKQVFGSLESRTAQVRYLKPQYQEGEKVSAYVLRLETL	60	
Db	1	DLWHIVQADNPISVEECLEAFKQVFGSLESRTAQVRYLKPQYQEGEKVSAYVLRLETL	60	
Qy	61	LRRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCLRELKDOGPPPSFLELMKVIREE	120	
Db	61	LRRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCLRELKDOGPPPSFLELMKVIREE	120	

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QY 121 EEEASFENESIEEPEERDGYGRWNHEGDD 149
DB 121 EEEASFENESIEEPEERDGYGRWNHEGDD 149

RESULT 2
US-10-504-329-3
; Sequence 3, Application US/10504329
; Publication No. US20050106569A1
; GENERAL INFORMATION:
; APPLICANT: Evotec Neurosciences GmbH
; TITLE OF INVENTION: Diagnostic and therapeutic use of MA onconeural
; TITLE OF INVENTION: antigens for neurodegenerative diseases
; FILE REFERENCE: 030475wo ME/BM
; CURRENT APPLICATION NUMBER: US/10/504,329
; CURRENT FILING DATE: 2004-08-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-504-329-3

Query Match 99.0%; Score 758; DB 17; Length 364;
Best Local Similarity 99.3%; Pred. No. 1.3e-68;
Matches 148; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DLMHIVQADNPISVSEECLEAFKQVFGSLRSRTAQVRYLKPQYEGEKVSAYVLRLETL 60
DB 216 DLMHIVQADNPISVSEECLEAFKQVFGSLRSRTAQVRYLKPQYEGEKVSAYVLRLETL 275

QY 61 LRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLRELKDQGPSPFLELMKVIREEE 120
DB 276 LRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLRELKDQGPSPFLELMKVIREEE 335

QY 121 EEEASFENESIEEPEERDGYGRWNHEGDD 149
DB 336 EEEASFENESIEEPEERDGYGRWNHEGDD 364

RESULT 3
US-10-037-860-11
; Sequence 11, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Josep O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 283
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-11

Query Match 98.6%; Score 755; DB 13; Length 283;
Best Local Similarity 98.7%; Pred. No. 1.9e-68;
Matches 147; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DLMHIVQADNPISVSEECLEAFKQVFGSLRSRTAQVRYLKPQYEGEKVSAYVLRLETL 60
DB 135 DLMHIVQADNPISVSEECLEAFKQVFGSLRSRTAQVRYLKPQYEGEKVSAYVLRLETL 194

QY 61 LRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLRELKDQGPSPFLELMKVIREEE 120
DB 195 LRAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLRELKDQGPSPFLELMKVIREEE 254

QY 121 EEEASFENESIEEPEERDGYGRWNHEGDD 149
DB 255 EEEASFENESIEEPEERDGYGRWNHEGDD 283

RESULT 4
US-10-037-860-13
; Sequence 13, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Josep O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 463
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-13

Query Match 42.2%; Score 323; DB 13; Length 463;
Best Local Similarity 52.7%; Pred. No. 3.8e-24;
Matches 68; Conservative 26; Mismatches 33; Indels 2; Gaps 1;

QY 6 VQADNPISVSEECLEAFKQVFGSLRSRTAQVRYLKPQYEGEKVSAYVLRLETLRRAV 65
DB 220 LRASNASITVEECLEAALQVFGVPVESHKIAQVKLCKAYQEGEKVSFVLRLEPLQRAV 279

QY 66 EKRAIPRIADQVRLEQVMAGATLNQMLWCRLRELKDQGPSPFLELMKVIREEEAS 125
DB 280 ENNVSVRRNVNQTRLKRVLSGATLPDKLRDKLKMQRKPPGFLALVKLLREESWEAT 339

QY 126 F--ENESIE 132
DB 340 LGPDRESLE 348

RESULT 5
US-09-965-529-7
; Sequence 7, Application US/0965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR FILING DATE: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1
US-11-048-692-7

Query Match      38.6%; Score 295.5; DB 9; Length 353;
Best Local Similarity 46.3%; Pred. No. 1.7e-21;
Matches 62; Conservative 29; Mismatches 36; Indels 7; Gaps 2;

QY   1 DLMHIVQADNPSSIVEECLEAFKQVFGSLESRRTAQVRYLKPYOEEGKSAYVLRLETL 60
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db   212 DVIRILKSNPAITTAECLEKALEQVFGSVESRDQAIFLNTYNQPGKLSAYVIRLEPL 271
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY   61 LRAVEKRAIPRIADOVRLEQMAGA-----TLNQMLWCRLRELKDQGPPPSFLELMKVI 116
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db   272 LQKVVEKGAIKDNVNQARLEQVIAGANHSIAIRQLWL---TGAGEGPAPNLFQLLVQI 328
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY   117 REEEEEASFFENES 130
    |||||:|:|:|
Db   329 REEAAKEEEEEAAA 342
    |||||:|:|:|

RESULT 6
US-09-969-680A-7
; Sequence 7, Application US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 2483172CD1
US-11-048-692-7

Query Match      38.6%; Score 295.5; DB 20; Length 353;
Best Local Similarity 46.3%; Pred. No. 1.7e-21;
Matches 62; Conservative 29; Mismatches 36; Indels 7; Gaps 2;

QY   1 DLMHIVQADNPSSIVEECLEAFKQVFGSLESRRTAQVRYLKPYOEEGKSAYVLRLETL 60
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db   212 DVIRILKSNPAITTAECLEKALEQVFGSVESRDQAIFLNTYNQPGKLSAYVIRLEPL 271
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY   61 LRAVEKRAIPRIADOVRLEQMAGA-----TLNQMLWCRLRELKDQGPPPSFLELMKVI 116
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db   272 LQKVVEKGAIKDNVNQARLEQVIAGANHSIAIRQLWL---TGAGEGPAPNLFQLLVQI 328
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY   117 REEEEEASFFENES 130
    |||||:|:~|:|
Db   329 REEAAKEEEEEAAA 342
    |||||:|:~|:|

RESULT 7
US-10-408-765A-2385
; Sequence 2385, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Bojin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2385
; LENGTH: 452
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2385

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Query Match      37.5%; Score 287; DB 16; Length 452;
Best Local Similarity 43.8%; Pred. No. 1.7e-20;
Matches 63; Conservative 30; Mismatches 43; Indels 8; Gaps 2;

Qy 2 LMHVQADNPISVVEECLEAFKQVFGSLERRTAQVRYLKPQYBEGEKVSAYVLRLETL 61
Db 215 IMRVQANDSITVEQLDALQIFGDKEDFRASQFRFLQTSFKIGKSVTFLLRLEPL 274

Qy 62 RRAVEKRAIPRIADQVRLSQVAGATLNQMLWCRLELKDQGPFPSPFLELMKVIREEE 121
Db 275 QKAVHKSPLSVSRDTMIRKHLARVAMTPALRGKUELLDORCPNPFLEMLKLRDEEE 334

Qy 122 ---EASFENESIEEPERDGYR 142
Db 335 WENTEAVMKK-----EKPSGRGR 353

RESULT 9
US-10-094-749-1978
; Sequence 1978, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR FILING DATE: 2002-01-24
; PRIOR FILING DATE: 2002-03-12
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1978
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-1978

Query Match      36.2%; Score 277; DB 15; Length 399;
Best Local Similarity 43.5%; Pred. No. 1.5e-19;
Matches 60; Conservative 30; Mismatches 48; Indels 0; Gaps 0;

Qy 2 LMHVQADNPISVVEECLEAFKQVFGSLERRTAQVRYLKPQYBEGEKVSAYVLRLETL 61
Db 208 LVHALLAENPARTAQDCLALAAQVFGDNESQATIRVKCLTAQQSGERLSAFVLRLEVL 267

Qy 62 RRAVEKRAIPRIADQVRLSQVAGATLNQMLWCRLELKDQGPFPSPFLELMKVIREEE 121
Db 268 QKAMEKALARASADRVLRLQMLTRAHLTEPLDEALRKLRMAGRSPSFLEMLGVRESEA 327

Qy 122 EASFENESIEEPERDGS 139
Db 328 WEASLARSVRAQTQEGAG 345

RESULT 10
US-09-965-529-1
; Sequence 1, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Henry
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR FILING DATE: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1
US-09-965-529-1

Query Match      35.4%; Score 271.5; DB 9; Length 351;
Best Local Similarity 44.6%; Pred. No. 4.7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

Qy 1 DLHMIVQADNPISVVEECLEAFKQVFGSLERRTAQVRYLKPQYBEGEKVSAYVLRLETL 60
Db 216 DVIRVLKINNPLITVDECLQALEEVFGVTDNPRELQVKYLTYYQKDEKLSAYVLRLEPL 275

Qy 61 LRAVEKRAIPRIADQVRLSQVAGATLNQMLWCRLELKDQGPFPSPFLELMKVIR 117
Db 276 LQKLVGQGAIERDAVNQARLDQVAGVHKTRREL-----NLPEGPGAPFLQLLVLIK 330

Qy 118 E---EVEEEA 124
Db 331 DYEAEEEEE 340

RESULT 11
US-09-804-014A-16
; Sequence 16, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR FILING DATE: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR FILING DATE: 2000-03-10
; PRIOR FILING DATE: 2000-03-10
; PRIOR FILING DATE: 2000-03-10
; PRIOR FILING DATE: 2000-03-14
; PRIOR FILING DATE: 2000-03-14
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; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-804-014A-16

Query Match      35.4%; Score 271.5; DB 10; Length 351;
Best Local Similarity 44.6%; Pred. No. 4.7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

Qy      1  DLMHIVQADNPISIVEECLAFKQVFGSLSRRTAQVRYLKPYQEEGKYSAYVLRLETL 60
Db      216 DVIRVKINPLITVDECLQALESVFGVTNPRELQVKYLTYYQKDEKLSAYVLRLEPL 275

Qy      61  LRRAVEKRAIPRRITADQVRLEQVNAGA---TLNQMLWCRLRELKDQGPSPFLELMKVIR 117
Db      276 LQKLVRQGAERDAVDNQARLDQVIAGVHKTIIRREL-----NLPEDGPAFGFLQLLVLIK 330

Qy      118  E---EEEEEA 124
Db      331 DYEAAEEEEA 340

RESULT 12
US-09-969-680A-1
; Sequence 1, Application US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti.; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 112301CDI
US-09-969-680A-1

Query Match      35.4%; Score 271.5; DB 10; Length 351;
Best Local Similarity 44.6%; Pred. No. 4.7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

Qy      1  DLMHIVQADNPISIVEECLAFKQVFGSLSRRTAQVRYLKPYQEEGKYSAYVLRLETL 60
Db      216 DVIRVKINPLITVDECLQALESVFGVTNPRELQVKYLTYYQKDEKLSAYVLRLEPL 275

Qy      61  LRRAVEKRAIPRRITADQVRLEQVNAGA---TLNQMLWCRLRELKDQGPSPFLELMKVIR 117
Db      276 LQKLVRQGAERDAVDNQARLDQVIAGVHKTIIRREL-----NLPEDGPAFGFLQLLVLIK 330

Qy      118  E---EEEEEA 124

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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:35:24 ; Search time 21.3397 Seconds  
(without alignments)  
989.972 Million cell updates/sec

Title: US-10-037-860-11  
Perfect score: 1462  
Sequence: 1 VQKGGVWVKVFTPNQDTE.....STEEPERDGYGRWNHEGDD 283

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/1/iaa/5B COMB.pcp.\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pcp.\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pcp.\*  
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6: /cgn2\_6/ptodata/1/iaa/backfilee1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	618.5	42.3	462	3	US-09-189-527-13
2	593	40.6	195	3	US-09-189-527-7
3	564	38.6	329	3	US-09-189-527-4
4	104.5	7.1	577	4	US-09-949-016-10835
5	100	6.8	750	4	US-09-585-173B-12
6	98	6.7	1070	3	US-08-322-635-22
7	98	6.7	1504	4	US-09-364-206-2
8	97.5	6.7	651	3	US-08-650-766-6
9	97.5	6.7	651	3	US-08-322-635-5
10	97.5	6.7	651	4	US-09-389-487-6
11	95	6.5	754	4	US-09-585-173B-51
12	94	6.4	1307	4	US-09-949-016-7561
13	94	6.4	1560	4	US-09-264-512B-2
14	93.5	6.4	331	3	US-08-556-419-25
15	93	6.4	1805	1	US-07-853-913-2
16	92	6.3	671	4	US-09-949-016-6441
17	92	6.3	736	4	US-09-252-991A-19048
18	92	6.3	1898	1	US-08-056-200-94
19	92	6.3	1898	2	US-08-800-644-94
20	92	6.3	1898	4	US-09-538-092-1280
21	91.5	6.3	300	4	US-09-345-23947
22	91	6.2	497	4	US-09-345-473B-8
23	91	6.2	518	3	US-09-329-418-3
24	91	6.2	518	3	US-09-329-418-4
25	91	6.2	518	3	US-09-329-418-5
26	91	6.2	518	3	US-09-329-418-9
27	91	6.2	518	3	US-09-531-914-3

28	91	6.2	518	3	US-09-531-914-4	Sequence 4, Appli
29	91	6.2	518	3	US-09-531-914-5	Sequence 5, Appli
30	91	6.2	518	3	US-09-531-914-9	Sequence 9, Appli
31	91	6.2	545	4	US-09-908-988B-4	Sequence 4, Appli
32	91	6.2	555	4	US-09-949-016-10660	Sequence 10660, A
33	91	6.2	583	4	US-09-949-016-8267	Sequence 8267, Ap
34	91	6.2	1786	3	US-08-973-462-8	Sequence 8, Appli
35	90.5	6.2	420	3	US-09-329-418-8	Sequence 8, Appli
36	90.5	6.2	420	3	US-09-531-914-8	Sequence 8, Appli
37	90	6.2	257	4	US-09-107-532A-6287	Sequence 6287, Ap
38	90	6.2	592	2	US-08-736-770-6	Sequence 6, Appli
39	90	6.2	592	4	US-09-702-705-1809	Sequence 1809, Ap
40	90	6.2	592	4	US-09-736-457-1809	Sequence 1809, Ap
41	90	6.2	592	4	US-09-643-657-4	Sequence 4, Appli
42	90	6.2	592	4	US-09-671-325-1809	Sequence 1809, Ap
43	90	6.2	605	4	US-09-949-016-8823	Sequence 8823, Ap
44	90	6.2	674	4	US-09-949-016-7034	Sequence 7034, Ap
45	90	6.2	755	4	US-09-949-016-7755	Sequence 7755, Ap

## ALIGNMENTS

RESULT 1  
US-09-189-527-13  
; Sequence 13, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; TITLE OF INVENTION: Antibodies  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 13  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-13

Query Match	42.3%	Score	618.5	DB	3	Length	462
Best Local Similarity	50.2%	Pred. No.	2.7e-56				
Matches	135	Conservative	44	Mismatches	85	Indels	5
Gaps	3						
QY	1	VQKGGVWVKVFTPNQDTEFLERLNLFLEKEGQTVSGMFRALQSGVSPATVPCISPEL	60				
DB	76	IFGKGGPWEIVKPRNSDGEFLNRLNRFLEERRTVSDMNRVLGSDTNCSPRVTISPEF	135				
QY	61	LAHLGQMAHAPQPLL-PMRYKRLRVFSGSAVPAPEESFEVWLQATEIVKKEWPVTEA	119				
DB	136	WT--WAQTGAAVQPLLEQMLYRELRFVSGNTISIPGALAFDAWLEHTTLMQWQVPEG	193				
QY	120	EKKWLAESLRGALDLMHIVQADNPISVSECLFAFKVQGSLSRRTAQVRYLKYOE	179				
DB	194	EKKRLMECLRGALQVSGLSRASNASITVECLAAQQVFGVESHKTAQVKLCAYOE	253				
QY	180	EKEKVSAYVLRLETLRLKRAVEKRAIPRRITADQVRLEQVMAGATLNQMLWCLRELKQDP	239				
DB	254	AGEKVSFVLRLEPLLQRAVENNVNRRVNNQTRLKVLSGATLPDKLRDKLKMQRK	313				
QY	240	PSFLELMKVIREEEEESAF--ENESIE	266				
DB	314	PRGFALVKKLREEEWEATLGPDRSLE	342				

RESULT 2  
US-09-189-527-7  
; Sequence 7, Application US/09189527A  
; Patent No. 6387639

Db	316	GPQKPLSV	324
<p>GENERAL INFORMATION:</p> <p>APPLICANT: Jerome B. Posner</p> <p>APPLICANT: Josep O. Dalmau</p> <p>APPLICANT: Myrna R. Rosenfeld</p> <p>TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma</p> <p>TITLE OF INVENTION: Antibodies</p> <p>FILE REFERENCE: SLX98-01</p> <p>CURRENT APPLICATION NUMBER: US/09/189,527A</p> <p>CURRENT FILING DATE: 1998-11-10</p> <p>NUMBER OF SEQ ID NOS: 14</p> <p>SOFTWARE: FastSeq for Windows Version 3.0</p> <p>SEQ ID NO 7</p> <p>LENGTH: 195</p> <p>TYPE: PRT</p> <p>ORGANISM: homo sapiens</p> <p>US-09-189-527-7</p>			
<p>Query Match</p> <p>Best Local Similarity 40.6%; Score 593; DB 3; Length 195;</p> <p>Mismatches 1; Conservative 1; Indels 0; Gaps 0;</p>			
Qy	1	VQKGGVWKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALQGVSPATVPCISP	60
Db	81	VQKGGVWKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALQGVSPATVPCISP	140
Qy	61	LAHLGQAAHAPOPLPMRYKRVFSGSAPVAPPEESFEVWLQATEIVKEWP	115
Db	141	LAHLGQAAHAPOPLPMRYKRVFSGSAPVAPPEESFEVWLQATEIVKEWP	195
<p>RESULT 3</p> <p>US-09-189-527-4</p> <p>Sequence 4, Application US/09189527A</p> <p>Patent No. 6387639</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Jerome B. Posner</p> <p>APPLICANT: Josep O. Dalmau</p> <p>APPLICANT: Myrna R. Rosenfeld</p> <p>TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma</p> <p>TITLE OF INVENTION: Antibodies</p> <p>FILE REFERENCE: SLX98-01</p> <p>CURRENT APPLICATION NUMBER: US/09/189,527A</p> <p>CURRENT FILING DATE: 1998-11-10</p> <p>NUMBER OF SEQ ID NOS: 14</p> <p>SOFTWARE: FastSeq for Windows Version 3.0</p> <p>SEQ ID NO 4</p> <p>LENGTH: 329</p> <p>TYPE: PRT</p> <p>ORGANISM: homo sapiens</p> <p>US-09-189-527-4</p>			
<p>Query Match</p> <p>Best Local Similarity 38.6%; Score 564; DB 3; Length 329;</p> <p>Mismatches 17; Conservative 47; Mismatches 73; Indels 12; Gaps 4;</p>			
Qy	3	GKGGVWKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALQGVSPATVPCISP	62
Db	83	GKGGVWKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALQGVSPATVPCISP	138
Qy	63	HLTGQAAHAPOPLPMRYKRVFSGSAPVAPPEESFEVWLQATEIVKEWP	121
Db	139	EMLNLYLDNVGPLVESIKTTLTFLSGKHPRANRGNFDPWLEHTNEVLEWQVSDVEK	198
Qy	122	KRWLAESLRGALDLMLHIYQADNPSTISVBECLAFKQVFGSLESRRTAQVRYLTKYQ	181
Db	199	RRRLMESLRGAAADVIRILKNNPAITTAECALKALEQVFGSVESRDAQIKFLNTYQNP	258
Qy	182	EKVSAYVLETLRLKAVKRAIPRIADQVLEQWAGA-----TLNQWLWCRLEKQD	237
Db	259	EKLSAVVIRLEPLQKQVKEGAIDKDNVQARLEQVIAAGNHSQAIRQLWL---TGAGE	315
Qy	238	GPQKPLSV	324

Best Local Similarity 23.0%; Pred. No. 0.19;  
Matches 64; Conservative 40; Mismatches 94; Indels 80; Gaps 13;  
QY 21 FLERLNLFLKEG-----QTVSGMFRALGQGV-----PATVPCISPE---LLAHL 65  
Db 214 YVDEINLL--DEGISNLLNLVSGWTVREGISFKHPCRPULLIATYNPPEGAVREHLL 271  
QY 66 GQAMAHAPQPLLMRYKLRVFGSSAVPAPEES--FEVWLEQ-----ATRVKE 113  
Db 272 DRAINLSAD-LPMSFENRVAAGVATEFOENSQVFMVEEETDNAKTQIILAREVYK 330  
QY 114 WPVTEAKKRWLAESRGPALDMLHIVQADNPISVVEECLEAFKQVFGSLESRTAQVRY 173  
Db 331 VTILRDQLKLVTEALRGCGQ--H--RAELFAARVAKCLAA-----LEGRE----- 373  
QY 174 LKTYQEGEGKVSAYVLRLETLRLKAVEKRAIPRIADQVLEQVMAGATLNQMLWCLRE 233  
Db 374 -KVYVDD-----LKKAVELVLPRESITESPDDQ----- 401  
QY 234 LKQGGPPSPFLMLKVIREEEESFENESIEPEER 271  
Db 402 -QNQPPPPPPPPQNSGESEGEEDDKDENEQQ 438

RESULT 6  
US-08-922-635-22  
; Sequence 22, Application US/08922635A  
; Patent No. 6033871  
; GENERAL INFORMATION:  
; APPLICANT: PILETZ, John E.  
; APPLICANT: IVANOV, Tina R.  
; TITLE OF INVENTION: DNA MOLECULES ENCODING IMIDALINE RECEPTIVE POLYPEPTIDES  
; TITLE OF INVENTION: AND POLYPEPTIDES ENCODED THEREBY  
; FILE REFERENCE: Corrected Sequence Listing  
; Patent No. 6033871  
; CURRENT APPLICATION NUMBER: US/08/922,635A  
; CURRENT FILING DATE: 1997-09-03  
; EARLIER APPLICATION NUMBER: 08/650,766  
; EARLIER FILING DATE: 1996-05-20  
; EARLIER APPLICATION NUMBER: 60/012,600  
; EARLIER FILING DATE: 1996-03-01  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 1070  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-08-922-635-22

Query Match 6.7%; Score 98; DB 3; Length 1070;  
Best Local Similarity 22.6%; Pred. No. 0.54;  
Matches 65; Conservative 33; Mismatches 103; Indels 86; Gaps 14;  
QY 30 EKEGTVSGMFRAL-----GQGVSPATVPCISPELLAHLGQAMAHAP 73  
Db 10 EKELDTVE-VLKAIOKAVEKSKLSNPEKKGDSRLSAAPCIRPSSPPTVAPASASLP 68  
QY 74 QPLLPMRYKLRVFGSSAVPAPEESFEVWLEQATEIVKE-WPVTEAKKRWLAESLRG- 131  
Db 69 QPIL-----SNQGMFVQEEALASLSSTDSLTPEHQIAQG-----CSDSLES 113  
QY 132 PA-----LDLMHIVQADNPISVVEECLEAFKQVF---GSLESRTAQVRYLKYVQEE 180  
Db 114 PAQQAASDDLRLDVPAGVGGASP-----EHAPEVQVVPVGGQIIFLPFTCIGYTATNQD- 167  
QY 181 GEKVSAYVLRLETLRLKAVEKRAIPRIADQVLEQVMAGATLNQMLWCLRELKQGGPP 240  
Db 168 -----FIQLRSTLIRQAIE-RQLP-----AWTEAANQREEGOG 199  
QY 241 PSFLELMKVIREEEESFENESIE-----EPERDGYGRWNHEGDD 283  
Db 200 EQGEE---EDEEEEDVAENRYFEMGPPDVDEEEGGQGESEEE 243

RESULT 7  
US-09-364-206-2  
; Sequence 2, Application US/09364206  
; Patent No. 6475752  
; GENERAL INFORMATION:  
; APPLICANT: Lal, Preeti  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Baugh, Matthew R.  
; APPLICANT: Kaser, Matthew R.  
; TITLE OF INVENTION: Mammalian Imidazoline Receptor  
; FILE REFERENCE: PC-0006 US  
; CURRENT APPLICATION NUMBER: US/09/364,206  
; CURRENT FILING DATE: 1999-07-30  
; NUMBER OF SEQ ID NOS: 47  
; SOFTWARE: PERL Program  
; SEQ ID NO 2  
; LENGTH: 1504  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY:  
; OTHER INFORMATION: 129581CD1  
; PUBLICATION INFORMATION:  
US-09-364-206-2

Query Match 6.7%; Score 98; DB 4; Length 1504;  
Best Local Similarity 22.6%; Pred. No. 0.91;  
Matches 65; Conservative 33; Mismatches 103; Indels 86; Gaps 14;  
QY 30 EKEGTVSGMFRAL-----GQGVSPATVPCISPELLAHLGQAMAHAP 73  
Db 444 EKELDTVE-VLKAIOKAVEKSKLSNPEKKGDSRLSAAPCIRPSSPPTVAPASASLP 502  
QY 74 QPLLPMRYKLRVFGSSAVPAPEESFEVWLEQATEIVKE-WPVTEAKKRWLAESLRG- 131  
Db 503 QPIL-----SNQGMFVQEEALASLSSTDSLTPEHQIAQG-----CSDSLES 547  
QY 132 PA-----LDLMHIVQADNPISVVEECLEAFKQVF---GSLESRTAQVRYLKYVQEE 180  
Db 548 PAQQAASDDLRLDVPAGVGGASP-----EHAPEVQVVPVGGQIIFLPFTCIGYTATNQD- 601  
QY 181 GEKVSAYVLRLETLRLKAVEKRAIPRIADQVLEQVMAGATLNQMLWCLRELKQGGPP 240  
Db 602 -----FIQLRSTLIRQAIE-RQLP-----AWTEAANQREEGOG 633  
QY 241 PSFLELMKVIREEEESFENESIE-----EPERDGYGRWNHEGDD 283  
Db 634 EQGEE---EDEEEEDVAENRYFEMGPPDVDEEEGGQGESEEE 677

RESULT 8  
US-08-650-766-6  
; Sequence 6, Application US/08650766D  
; Patent No. 6015690  
; GENERAL INFORMATION:  
; APPLICANT: PILETZ, John E.  
; APPLICANT: IVANOV, Tina R.  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A HUMAN IMIDAZOLINE RECEPTOR AND  
; TITLE OF INVENTION: METHOD FOR CLONING THE SAME  
; FILE REFERENCE: Corrected Sequence Listing  
; Patent No. 6015690  
; CURRENT APPLICATION NUMBER: US/08/650,766D  
; CURRENT FILING DATE: 1996-05-20  
; EARLIER APPLICATION NUMBER: US 60/012,600  
; EARLIER FILING DATE: 1996-03-01  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 651  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-08-650-766-6









GenCore version S.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:45:49 ; Search time 75.1875 Seconds  
(without alignments)  
1478.945 Million cell updates/sec

Title: US-10-037-860-11

Perfect score: 1462

Sequence: 1 VQKGGWKVIFKTPNQDTE.....SIEEPERDGYGRWNHGDD 283

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications\_AA.\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
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- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10E\_PUBCOMB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US10F\_PUBCOMB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US11A\_PUBCOMB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 21: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 22: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1462	100.0	283	13 US-10-037-860-11	Sequence 11, Appl
2	1459	99.8	364	17 US-10-504-329-3	Sequence 3, Appl
3	755	51.6	149	13 US-10-037-860-9	Sequence 9, Appl
4	628	43.0	353	9 US-09-965-529-7	Sequence 7, Appl
5	628	43.0	353	10 US-09-969-680A-7	Sequence 7, Appl
6	628	43.0	353	20 US-11-048-692-7	Sequence 7, Appl
7	618.5	42.3	463	13 US-10-037-860-13	Sequence 13, Appl
8	597	40.8	452	16 US-10-408-765A-2385	Sequence 2385, Ap
9	596.5	40.8	351	9 US-09-965-529-1	Sequence 1, Appl
10	596.5	40.8	351	10 US-09-804-014A-16	Sequence 16, Appl
11	596.5	40.8	351	10 US-09-969-680A-1	Sequence 1, Appl

12	596.5	40.8	351	15	US-10-341-434-10	Sequence 10, Appl
13	596.5	40.8	351	20	US-11-048-692-1	Sequence 1, Appl
14	593	40.6	195	13	US-10-037-860-7	Sequence 7, Appl
15	564	38.6	329	13	US-10-037-860-4	Sequence 4, Appl
16	562.5	38.5	318	10	US-09-804-014A-40	Sequence 40, Appl
17	560	38.3	321	10	US-08-804-014A-39	Sequence 39, Appl
18	550	37.6	312	10	US-09-804-014A-73	Sequence 73, Appl
19	550	37.6	312	10	US-09-804-014A-74	Sequence 74, Appl
20	475.5	32.5	399	15	US-10-094-749-1978	Sequence 1978, Ap
21	394	26.9	403	15	US-10-094-466-38	Sequence 38, Appl
22	380.5	26.0	402	17	US-10-959-539-26	Sequence 26, Appl
23	378.5	25.9	337	15	US-10-296-115-1208	Sequence 1208, Ap
24	215	14.7	120	10	US-09-804-014A-42	Sequence 42, Appl
25	156.5	10.7	204	14	US-10-029-386-33747	Sequence 33747, A
26	123	8.4	120	10	US-09-804-014A-41	Sequence 41, Appl
27	117	8.0	538	16	US-10-408-765A-2992	Sequence 2992, Ap
28	113	7.7	2383	14	US-10-082-830-260	Sequence 260, App
29	110.5	7.6	584	15	US-10-291-172-355	Sequence 355, App
30	110.5	7.6	584	15	US-10-221-278-355	Sequence 355, App
31	107	7.3	626	16	US-10-425-115-366836	Sequence 366836,
32	107	7.3	1031	11	US-09-764-875-686	Sequence 686, App
33	107	7.3	1035	15	US-10-158-057-197	Sequence 197, App
34	107	7.3	1459	16	US-10-408-765A-2246	Sequence 2246, Ap
35	106	7.3	542	15	US-10-205-331-57	Sequence 57, Appl
36	105.5	7.2	758	15	US-10-282-122A-67949	Sequence 67949, A
37	104.5	7.1	525	16	US-10-723-860-2125	Sequence 2125, Ap
38	103	7.0	544	16	US-10-723-860-2599	Sequence 2599, Ap
39	103	7.0	544	18	US-10-756-149-5421	Sequence 5421, Ap
40	102.5	7.0	614	17	US-10-732-923-12016	Sequence 12016, A
41	102.5	7.0	879	15	US-10-282-122A-60655	Sequence 60655, A
42	102	7.0	116	9	US-09-864-761-34645	Sequence 34645, A
43	102	7.0	225	10	US-09-764-891-4172	Sequence 4172, Ap
44	101.5	6.9	788	14	US-10-128-714-8204	Sequence 8204, Ap
45	101	6.9	339	16	US-10-425-115-334864	Sequence 334864,

#### ALIGNMENTS

RESULT 1  
US-10-037-860-11  
; Sequence 11, Application US/10037860  
; Publication No. US20020123114A1  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrha R. Rosenfeld  
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma  
; FILE REFERENCE: 2581.1004-004  
; CURRENT APPLICATION NUMBER: US/10/037,860  
; CURRENT FILING DATE: 2001-01-04  
; PRIOR APPLICATION NUMBER: 09/189,527  
; PRIOR FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11  
; LENGTH: 283  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-10-037-860-11

Query Match	100.0%	Score 1462;	DB 13;	Length 283;
Best Local Similarity	100.0%	Pred. No. 3.1e-120;		
Matches 283;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	VQKGGWKVIFKTPNQDTEFLERLNLFLEKSGQTVSGMFRALGQGVSPATVPCISPEL 60		
DB	1	VQKGGWKVIFKTPNQDTEFLERLNLFLEKSGQTVSGMFRALGQGVSPATVPCISPEL 60		
QY	61	LAHLGQAMAHAPQLPMRYKLRVFGSAVPAPEESFEVWLEQATEIVKWPVTEAE 120		
DB	61	LAHLGQAMAHAPQLPMRYKLRVFGSAVPAPEESFEVWLEQATEIVKWPVTEAE 120		



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Db 259 EKLSAVIRLEPLQKVVEKGAIDKDNVNQARLEQVIAGNHSRAIRRLQWL---TGAGE 315
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QY 238 GPPPSFLELMKVIREEEEASFNES 264
;
Db 316 GPAPNLFQLLVQVIREEEAEEAE 342
;
RESULT 5
US-09-969-680A-7
; Sequence 7, Application US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyoung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 2483172CD1
US-09-969-680A-7
Query Match 43.0%; Score 628; DB 10; Length 353;
Best Local Similarity 47.9%; Pred. No. 1.1e-46;
Matches 128; Conservative 52; Mismatches 75; Indels 12; Gaps 4;
QY 3 GKGWVKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALQGVSPATVPCISPPELLA 62
Db 83 GKGWVKVLFKPTSDAEFLERLHLFLAREGTVQDVARVLGFQNPPTTP---GPMPA 138
QY 63 HLLGQAMAHAPQPLL-PMRYRKLVRVSGSAVPAPEESPEVWLEQATEIVKWPVTEAEK 121
Db 139 EMLNYILDNVIOPLVESIWYKRLTFSGRDIIPGGEETDPWLEHTNEVLEEQVSDVEK 198
QY 122 KRWLAESLRGPALDLMHIQVADNPISVVEECLEAFKQVFGSLERRTAQVRYLKTQYEG 181
Db 199 RRLMESLRGPAADVIRILKSNPAITTAECLEKALQVFGSVSSRDAQIKFLNTYQNG 258
QY 182 EKVSAYVLRLETLRLKAVEKRAIPRIADQVRLQVLEQVMAGA---TLNQMLWCRLELKDQ 237
Db 259 EKLSAVIRLEPLQKVVEKGAIDKDNVNQARLEQVIAGNHSRAIRRLQWL---TGAGE 315
QY 238 GPPPSFLELMKVIREEEEASFNES 264
Db 316 GPAPNLFQLLVQVIREEEAEEAE 342
RESULT 6
US-11-048-692-7
; Sequence 7, Application US/11048692
; Publication No. US2005012390A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyoung Aina M.
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7
Query Match 43.0%; Score 628; DB 10; Length 353;
Best Local Similarity 47.9%; Pred. No. 1.1e-46;
Matches 128; Conservative 52; Mismatches 75; Indels 12; Gaps 4;
QY 3 GKGWVKVIFKTPNQDTEFLERLNLFLEKEGQTVSGMFRALQGVSPATVPCISPPELLA 62
Db 83 GKGWVKVLFKPTSDAEFLERLHLFLAREGTVQDVARVLGFQNPPTTP---GPMPA 138
QY 63 HLLGQAMAHAPQPLL-PMRYRKLVRVSGSAVPAPEESPEVWLEQATEIVKWPVTEAEK 121
Db 139 EMLNYILDNVIOPLVESIWYKRLTFSGRDIIPGGEETDPWLEHTNEVLEEQVSDVEK 198
QY 122 KRWLAESLRGPALDLMHIQVADNPISVVEECLEAFKQVFGSLERRTAQVRYLKTQYEG 181
Db 199 RRLMESLRGPAADVIRILKSNPAITTAECLEKALQVFGSVSSRDAQIKFLNTYQNG 258
QY 182 EKVSAYVLRLETLRLKAVEKRAIPRIADQVRLQVLEQVMAGA---TLNQMLWCRLELKDQ 237
Db 259 EKLSAVIRLEPLQKVVEKGAIDKDNVNQARLEQVIAGNHSRAIRRLQWL---TGAGE 315
QY 238 GPPPSFLELMKVIREEEEASFNES 264
Db 316 GPAPNLFQLLVQVIREEEAEEAE 342
RESULT 7
US-10-037-860-13
; Sequence 13, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmau
; APPLICANT: Myrina R. Rosenfeld
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 463
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-13
Query Match 42.3%; Score 618.5; DB 13; Length 463;
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Matches 135; Conservative 44; Mismatches 85; Indels 5; Gaps 3;

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Db 82 IPGGGKWEIVKPRNSDGBFLNRLNRLFLKEERRTVSDMNRVLGSDTNCSPRVTISPEF 141
Qy 61 LAHLGQAMAHAPQPLL-PMRYRKLRFVSGSAVPAPEESFEVWLEQATEIVKEWPVTEA 119
Db 142 WT--WAQTGAANQVPLEQMLYRELRFVSGNTTISPGALAFDAWLEHTTLEMLQWQVPEG 199
Qy 120 EKKRLAESLRGALDLMHIVQADNPSISVEECLEAFKQVFGSLESRRRTAQVRYLKYQE 179
Db 200 EKKRRLMECLRGALQVVGSLGRASNASITVEECALALQVFGVPESHKIAQVVKCKAYQE 259
Qy 180 EGEKVSAYVLRLETLRLKAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLELKDQGP 239
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Qy 240 PPGFLEMLKVIREEEEAASF--ENESIE 266
Db 320 PPGFALVKKLIREEEWEATLGPRESLE 348

RESULT 8
US-10-408-765A-2385
; Sequence 2385, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2385
; LENGTH: 452
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2385

Query Match 40.8%; Score 597; DB 16; Length 452;
Best Local Similarity 46.3%; Pred. No. 8.5e-44;
Matches 132; Conservative 48; Mismatches 79; Indels 26; Gaps 5;

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Db 86 IPGGGKWEIVKPRNPDDFSLRLNLYFLKDEGRSMTDVARALGCCSLPAESLDAEVMQP 145
Qy 56 I-SPELLAHLGQAMAHAPQPLLPMRYRKLRFVSGSAVPAPEESFEVWLEQATEIVKEW 114
Db 146 VRSPPL-----EPPKSMWYRKLVKRGSGTASPSGBETFDWLEQVTEINPIW 193
Qy 115 PVTEAEKKRLAESLRGALDLMHIVQADNPSISVEECLEAFKQVFGSLESRRRTAQVRYL 174
Db 194 QVSEVEKKRRLLESRLGALSIKRVLQANDSITVEQCLDALKQIFGDKEDFRASQRFPL 253
Qy 175 KTVQEEGEKVSAYVLRLETLRLKAVEKRAIPRIADQVRLEQVMAGATLNQMLWCRLEL 234
Db 254 QTSPKIGEKVSTFLLRLEPLLQKAVHKSPLSVSRSTDMLRKLHLLARVAMTPALRGKLEL 313
Qy 235 KOQPPPSFLEMLKVIREEE--EASFNESIEEPEERDGYCR 276
Db 314 DQRCPPNLFLEMLKMLINDEBEWENTEAMKNK-----EKPSGRGR 353

US-09-965-529-1
; Sequence 1, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalida
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1
US-09-965-529-1

Query Match 40.8%; Score 596.5; DB 9; Length 351;
Best Local Similarity 48.3%; Pred. No. 6.7e-44;
Matches 128; Conservative 49; Mismatches 75; Indels 13; Gaps 5;

Qy 1 VQGGGKWKVIFKTPNODTFLERLNLFLKEKGQTVSGMFRALQGEVSPATVPCISPEL 60
Db 82 IPGGGKWEIVKPRNPDDNTFLSRLNEFLAGEGTMVGLSRLGSHENGSLDPPQGMIPEM 141
Qy 61 LAHLGQAMAHAPQPLL-PMRYRKLRFVSGSAVPAPEESFEVWLEQATEIVKEWPVTEA 119
Db 142 WAPMLAAL-EALQPALQCLKYKLVFSGRESPEGEFEFGWMFHTTQMIRKAWQVPDV 200
Qy 120 EKKRLAESLRGALDLMHIVQADNPSISVEECLEAFKQVFGSLESRRRTAQVRYLKYQE 179
Db 201 EKKRRLLESRLGALDLMHIVRLKINNPLITVDECLQALEEVFGVTDNPRELQVLYTYQK 260
Qy 180 EGEKVSAYVLRLETLRLKAVEKRAIPRIADQVRLEQVMAGA---TLNQMLWCRLELKD 236
Db 261 DEEKL SAYVLRLEPLLQKLVQRGAIERDAVNQARLDQVIAGAVHKTIRREL-----NLPE 315
Qy 237 QGPPPSFLEMLKVIRE---EEEEE 258
Db 316 DGPAPGLQLLVLLIKDYEAABEEEA 340

RESULT 10
US-09-804-014A-16
; Sequence 16, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
```

[illegible]





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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:35:24 ; Search time 34.9126 Seconds  
(without alignments)  
989.972 Million cell updates/sec

Title: US-10-037-860-13

Perfect score: 2423

Sequence: 1 MPTLLQDWCGRGHLNTRC.....VESGNGNWDKSHPKSKAK 463

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/iaa/5A COMB.pdp.\*
- 2: /cgn2\_6/ptodata/1/iaa/5B COMB.pdp.\*
- 3: /cgn2\_6/ptodata/1/iaa/6A COMB.pdp.\*
- 4: /cgn2\_6/ptodata/1/iaa/6B COMB.pdp.\*
- 5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pdp.\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pdp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2394	98.8	462	3	US-09-189-527-13
2	766.5	31.6	329	3	US-09-189-527-4
3	462.5	19.1	195	3	US-09-189-527-7
4	122	5.0	2293	3	US-09-368-590-2
5	113	4.7	706	4	US-09-949-016-8626
6	110.5	4.6	341	4	US-09-352-991A-20182
7	110	4.5	373	4	US-09-919-497-53
8	110	4.5	384	4	US-09-949-016-11663
9	110	4.5	718	4	US-09-252-991A-32743
10	104.5	4.3	499	4	US-09-902-540-14780
11	104	4.3	312	4	US-09-302-540-11866
12	104	4.3	383	4	US-09-489-039A-11848
13	104	4.3	2600	4	US-09-949-016-7309
14	103	4.3	551	4	US-09-583-110-5058
15	101.5	4.2	1201	4	US-09-252-991A-32259
16	101	4.2	550	4	US-09-538-092-1259
17	101	4.2	580	4	US-09-252-991A-22036
18	100	4.1	363	4	US-09-252-991A-26726
19	100	4.1	389	4	US-09-252-991A-22549
20	99.5	4.1	1050	4	US-09-555-554-2
21	99	4.1	520	4	US-09-949-016-8026
22	99	4.1	639	1	US-08-466-390-2
23	99	4.1	639	1	US-08-470-950-2
24	99	4.1	639	1	US-08-467-781-2
25	99	4.1	639	1	US-08-195-487-2
26	99	4.1	639	2	US-08-483-924-2
27	99	4.1	639	5	PCT-US93-06160-2

Sequence 12568, A  
Sequence 23346, A  
Sequence 13635, A  
Sequence 28446, A  
Sequence 4, Appli  
Sequence 26482, A  
Sequence 3291, Ap  
Sequence 30867, A  
Sequence 3227, Ap  
Sequence 2, Appli  
Sequence 31502, A  
Sequence 24973, A  
Sequence 20455, A  
Sequence 5, Appli  
Sequence 2, Appli  
Sequence 17953, A  
Sequence 28918, A

#### ALIGNMENTS

RESULT 1  
US-09-189-527-13  
; Sequence 13, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; TITLE OF INVENTION: Antibodies  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 13  
; LENGTH: 462  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-13

Query Match 98.8%; Score 2394; DB 3; Length 462;  
Best Local Similarity 100.0%; Pred. No. 4.9e-247;  
Matches 457; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 7 QDWCGRGHLNTRCMLILGIPEDCGDEFEETLQACRHLGRYRVIGRMFRREENAQAIL 66  
DB 1 QDWCGRGHLNTRCMLILGIPEDCGDEFEETLQACRHLGRYRVIGRMFRREENAQAIL 60  
QY 67 LBLAQIDYALLPREIPGKGGPWEIVKPRNSDGEFLNRLNRFLEERTVSDMNRVLGS 126  
DB 61 LBLAQIDYALLPREIPGKGGPWEIVKPRNSDGEFLNRLNRFLEERTVSDMNRVLGS 120  
QY 127 DTNCSAPRTVISPEFWTAAQTIGRAVQPILEQMYRELIVFSGNTISIPGALAFDAWLEH 186  
DB 121 DTNCSAPRTVISPEFWTAAQTIGRAVQPILEQMYRELIVFSGNTISIPGALAFDAWLEH 180  
QY 187 TTEMQLQMQVPEGEKRRRLMECLRGALQVSGLRASNASITVEECLAAALQVFGPVESH 246  
DB 181 TTEMQLQMQVPEGEKRRRLMECLRGALQVSGLRASNASITVEECLAAALQVFGPVESH 240  
QY 247 KIAQVKLCXAYQAEAGKSSFFVLRLPLQRAVENNVSRNNVQTRLRKVLGATLPDK 306  
DB 241 KIAQVKLCXAYQAEAGKSSFFVLRLPLQRAVENNVSRNNVQTRLRKVLGATLPDK 300  
QY 307 LRDKLKLKMKQRPQCFALVKLLREEEWEATLQPDRESLEGLVAPPPARITGVAV 366  
DB 301 LRDKLKLKMKQRPQCFALVKLLREEEWEATLQPDRESLEGLVAPPPARITGVAV 360  
QY 367 PLPASGNSPDARPSQGYRRRRRGQHRRGVARAGSRGSRKRRKRTFCYSCGDGHIRVQ 426





Db 129 TPBPAPSLRPGPAAP-VTTPGCTDLRGLRLVQRNAEEL-----GH 171  
Qy 178 LAFDAWLEHTTEMLQMWQVPEGEKRRRLMECLRGALQVVSGLRASNA---SITVBECLA 234  
Db 172 EAF--W-----EQELRRREQAREQARL-QALSAATAHAARLQALDAQARALEAEQLA 224  
Qy 235 ALQOVFGP-----VESHKIAQVK-----LCKAYQAGEKVSFVLRLEPL 274  
Db 225 A--EAPGPPSPMASATERLHQDLAVQERQSAEVOGSLALVSRALEAAERA-----LQAO 276  
Qy 275 LQRAVENNVSRNVNTRKLV--SGATLPDKLRDKLKMQRKPPGFLALVKLLRE 332  
Db 277 AQELEELN----RELRCNLQOFTQQTGAALPPPPRD-----RGPPGTQGPLPPARE 325  
Qy 333 EEWAEATLGPDRSLEGLVAPR---PPARITGVGAVPLP 369  
Db 326 ----ESLLGAPSESHAGAPRPRGGPHDAELLEVAAPAP 361  
RESULT 8  
US-09-949-016-11663  
; Sequence 11663, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 11663  
; LENGTH: 384  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-11663  
Query Match 4.5%; Score 110; DB 4; Length 384;  
Best Local Similarity 24.2%; Pred. No. 0.0097;  
Matches 97; Conservative 49; Mismatches 144; Indels 110; Gaps 20;

Qy 22 LILGIPDCGDEFEETLQACRHLGRYRVIGRMFRREE-----NQAQILLELAQD 72  
Db 31 WCVGVSEQTTCCQEVVIALAQAGTGRFVLVQRLREKERQLLPQECVGAQATCGQPASD 90  
Qy 73 IDVALLPREIPGKG-----PWE-----VIVKPRNSDGEFLNRLNRFLEERRTV 117  
Db 91 VQF-VLERTGSLAGRSSDSCPPPERCLIRASLPVKPRAALG-----CEPKTL 139  
Qy 118 SDNRVLGSDTNCAPRTTISPFWTWAQTGLAAVQPLLEQMLYRELRFVSGNTISPGA 177  
Db 140 TPBPAPSLRPGPAAP-VTTPGCTDLRGLRLVQRNAEEL-----GH 182  
Qy 178 LAFDAWLEHTTEMLQMWQVPEGEKRRRLMECLRGALQVVSGLRASNA---SITVBECLA 234  
Db 183 EAF--W-----EQELRRREQAREQARL-QALSAATAHAARLQALDAQARALEAEQLA 235  
Qy 235 ALQOVFGP-----VESHKIAQVK-----LCKAYQAGEKVSFVLRLEPL 274  
Db 236 A--EAPGPPSPMASATERLHQDLAVQERQSAEVOGSLALVSRALEAAERA-----LQAO 287  
Qy 275 LQRAVENNVSRNVNTRKLV--SGATLPDKLRDKLKMQRKPPGFLALVKLLRE 332  
Db 288 AQELEELN----RELRCNLQOFTQQTGAALPPPPRD-----RGPPGTQGPLPPARE 336

Qy 333 EEWAEATLGPDRSLEGLVAPR---PPARITGVGAVPLP 369  
Db 337 ----ESLLGAPSESHAGAPRPRGGPHDAELLEVAAPAP 372  
RESULT 9  
US-09-252-991A-32743  
; Sequence 32743, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 32743  
; LENGTH: 718  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-32743

Query Match 4.5%; Score 110; DB 4; Length 718;  
Best Local Similarity 21.7%; Pred. No. 0.027;  
Matches 70; Conservative 31; Mismatches 93; Indels 128; Gaps 16;  
Qy 242 PVESHKIAQVKLCKAYQAGEKVSFVLRLEPL-----LQRAVE----- 280  
Db 122 PEKPHHVERPRHVDAYRQPGQRAIR---XLSPPRPPRRRTDRHAGGGGPRQRALHLARA 178  
Qy 281 -----NNVSVSRNVNTRKLVSGATLPDKLRDKLKMQRKPPG---FLALV 327  
Db 179 DGHRCCLHPLPAGRRGLPRRLRGAV--ANLPSRARDH-----GVERRPAGGGLRGLA 232  
Qy 328 KLLREEEWEATLGPDRSLEGLVAPRPPAR-ITG-----VGAVPLPASGNSF 375  
Db 233 QRTVPGDAARTPAADRRDRRLRRRAPPARGTGRGGGGRQRLPAGAIPOPA----- 287  
Qy 376 DARPSOGYRRRG-----RGQHR----- 393  
Db 288 -GEPPQGLQRRPCPPAPPPRSAGGARGHLRHLRRPAPVRRRARPGRSQKRVAAG 346  
Qy 394 RGVVARAGSRGRK-----RKRTTCYSCGEDGHIRVQCINPSNLLI-----VKQK 439  
Db 347 RGGFGRAGLPAHRRHFGLPRRHSYRPA---DGH-RAGLPGPRSQYLQAGAPGPAVHR 402  
Qy 440 KQAAVESGNGNMAWDKSHPKSK 461  
Db 403 AHQAPAGRG-----HPRPR 417

RESULT 10  
US-09-902-540-14780  
; Sequence 14780, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wiegand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
; FILE REFERENCE: 38-10(15849)B  
; CURRENT APPLICATION NUMBER: US/09/902,540  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: 60/217,883  
; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 14780

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; LENGTH: 499
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-14780

Query Match      4.3%; Score 104.5; DB 4; Length 499;
Best Local Similarity 24.0%; Pred. No. 0.058;
Matches 99; Conservative 45; Mismatches 124; Indels 145; Gaps 23;

QY 31 GEDEFE-----ETLOEACRHLGRVYIGRMFRREENAQAALLLEAQQ--IDYA 76
Db 163 GEDEGEDLLIHDNVGTAQQAR-----RRDFTINGLYDVASGRVIDY- 209
QY 77 LLPREIPGKGPMEVVKPRNSDGEFLNRLNRFLEERRTVSDMNRVLGSDTNCSPRVT 136
Db 210 -----VRGR-----RDLEDFRTIG--DPEVRMEDPVRILRAVR--FAKUG 249
QY 137 ISPEFTWATOLGAOVPLLE-----OMLYRELRFVSGNTISPGALAFADWLHETTEMLO 192
Db 250 LDIESRTYAAMEG-AVEDLPCAPARLLEETFRLLIRGG-VSAPALKLLDA-----LDALK 302
QY 193 MWQVP-----EGERK-----RELMECLRGPALQVVSGLRASNASITVEECL 233
Db 303 ILLPPVNAVYKQKGEKEKTFYAPASLDR-----VSAGEALDDAILLAMLL 350
QY 234 AALQOVFGPVESHKIAQVCLKAYQAGEKVSFVLRLKLEPLQRAVENNVVSRNNVQTR 293
Db 351 IPISRTSGPES-----QEGRPVSQVQV---EDLAGFVQSARLPRIAERCR 395
QY 294 L-----KRVLSGATLPDKLRDKLKLKMKORRPPGF-----LALVKLLREEEWEATLGPDR 345
Db 396 MLLLAQRTLSG-----ERRRSAAFKRHPLFSEALTVFEMTVEAT-GENRE 440
QY 346 SLGLEVAPPRPARITGVGAVPLP-----ASGNSFDARPSOGYRRRCRGQHR 394
Db 441 QLEAWK-----AGEVPPRAAADGESDA---GGQRKRRRRRRR 479

RESULT 11
US-09-902-540-11866
; Sequence 11866, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 11866
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-11866

Query Match      4.3%; Score 104; DB 4; Length 312;
Best Local Similarity 24.0%; Pred. No. 0.03;
Matches 67; Conservative 30; Mismatches 84; Indels 98; Gaps 15;

QY 227 ITVECLALQQ--VFGPVESHKIAQVCLKAYQEA-----GEKVSFVLBLEPL 274
Db 15 IELERSLDAMDHFVAVLGLKFGAPASEVK--QAYYNASRRPHDPDRYFGKNLGSFRAMERI 72
QY 275 LQRAVE--NNVSVRRNVQTRKRVLSGATLPDK---LRDKLKLKORR-----KPP 321
Db 73 FRRLTAHNVLMQ-----PDKREAYLRANPALAQARAAAPPPPSAPP 115
QY 322 GFLLALVKLREBEWEATLGPDRSLEGLVAPPRPARITGVGAVPLPASPAGNSFDARP-- 379
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Db 116 PSAPAQHLLTPEP-----PPVHQLSSPPPPAPPPVASSGPPSIPPP-----SRPLA 161
QY 380 -----SQYRRRRRGGRGGVARAG-----SRGSRKRKRHTFCYSCGE 419
Db 162 PPDDGASBARRAEROARLARPYLARTGLRLABELIARGKAAIAGSDWERAYHDF----- 215
QY 420 DGHIRVQCINPS-----LLLVKQKK-----QAAVESGNG 449
Db 216 --H-QVTDWPKRREVALLLVKKARGHDSQRATIEVARG 251

RESULT 12
US-09-489-039A-11848
; Sequence 11848, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 11848
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-11848

Query Match      4.3%; Score 104; DB 4; Length 383;
Best Local Similarity 22.5%; Pred. No. 0.042;
Matches 60; Conservative 44; Mismatches 91; Indels 72; Gaps 12;

QY 114 RRTVSDMNRVLGSDTNCSPRVTISPEFTWATOLGAOVPLLEOMLYRELRFVSGNTIS 173
Db 118 QRGAAELHR-CRSETLCFTLRATISSSFITHPRNMNDIAHNLAAQ-----VRD-----K 164
QY 174 IPGALAFADWLHETTEMLOMWQVPEGEKRRRLMECLRGALQVVSGLRASNASITVEECL 233
Db 165 ISGAAA-----RCGRAPEEVTLAVSKTKPASIAEEAI 197
QY 234 AALQOVFGPVESHKIAQVCLKAYQAGEKVSFVLRLKLEPLQRA-----VENNVSVRRNV 289
Db 198 AAGQAFG--ENY-----VQGVKXNHF-----QAGVSGVLQWHFIFGPLOS 237
QY 290 NOTRL-KRVLSGATLPDKLRDKLKLKMKORRPPGFLLALVKLLRE--EEWEATLGPDRS 346
Db 238 NKSRLVAEHFDNCHTVDRKIATRLNEQR--PAHLPLKVLQIINISDEQSKSGIPLEA 294
QY 347 L EGL--EVAPRPPARITGVGAVPLPAS 371
Db 295 LDGLAAETAEIAPHLPLRLGLMAIPAPES 321

RESULT 13
US-09-949-016-7309
; Sequence 7309, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
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; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7309
; LENGTH: 2600
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7309

Query Match      4.3%; Score 104; DB 4; Length 2600;
Best Local Similarity 23.3%; Pred. No. 1;
Matches 84; Conservative 52; Mismatches 125; Indels 100; Gaps 19;

Qy 60 ENQAAILLELAQDIDYALLPREIPGK-----GGPWEVIVKPRNSDGEFL---NR 105
Db 1071 EPRQAALLEBA-----ALLAERFPQAARLHQGAELGAEMWALASAAQACGSAVAAGR 1125
Qy 106 LNRFLBEERRTVSDMNRVLGSDTNCSPRVTTISPEFTWTAOTILGAAVQPLLEQMLYRE-- 163
Db 1126 LQFLHDLDAFLDWLVRQAQAGSEGP-----LPNSLEEDALLARHAALKKEVDQREED 1181
Qy 164 -LRVFSGN--TISIPGA-----LAFDAWLEHTT-----EMIQMVQVPEGEKRRRLMEC--- 208
Db 1182 YARIVAASEALLAAGDAELGFLADDEWLPHELELGHWHKLLGLWEA-----RREALVQAHY 1237
Qy 209 ---LRG--PALQVVG--LRASNASI--TVEECIALAQVFGPVESHKIAQVKLCKAYQE 259
Db 1238 QLFRLDRQALVLRNOEMALSGAELPGTVESVEEALKQHRDLFTTMLSQQKMQVAVQA 1297
Qy 260 A-----GEKVSFVLRLPLELQRAVENNVSRNVNQTRLKRLVLSGATLPKLRD 309
Db 1298 AEGLLRGNIYGQAQAVTRL-----LEKQENQLRAQWM-----QKLHD 1339
Qy 310 KKLK---MKORRPPGFLALVKLL-----REE-----EWEATLGPRESLEGL 350
Db 1340 QLEQLHFLRDCHELDGWIHEKMLWARDSTREDNHLKHLRWLRHQAFMAELAQNKWLEKI 1399
Qy 351 E 351
Db 1400 E 1400

RESULT 14
US-09-583-110-5058
; Sequence 5058, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 5058
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-5058

Query Match      4.3%; Score 103; DB 4; Length 551;
Best Local Similarity 21.5%; Pred. No. 0.098;
Matches 91; Conservative 63; Mismatches 163; Indels 106; Gaps 21;

Qy 31 GEDSFETLQEA--CRHLGRYV--IGRMFRRENAQAAIL-----ELAQDIDVALLPREI 82
Db 99 GVDEIRDKSTVAPSLARYKVYIIDVHMLSTGAFNALLKTLEPTQNVVFLATTEL 158
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Qy 83 PGKGGPWEVIVKPRNSDGEFLNRLNRFLEEERT---VSDMNRVLGSDTNCSPR-VTIS 138
Db 159 -----HKIPATILSRVQRFEPFKSIKTQDIKSHIHYLEKENISSEPEAVEII 205
Qy 139 PEFWTWAOQTGAAVQPLLEQMLYRELRFVSGNTIS-----IPGALAFDAWLEHTTTEMLQ 192
Db 206 -----ARRAEGGMRDAL-SILDQALSLTQGNELTTAISEEITGTISLSA-LDDYVAALS 257
Qy 193 MMQVPE-----GEKRRR---LMECLRGPALQVVGSLRASNASITVEECIALAQ 237
Db 258 QQDVPKALSCNLNLFDPNGKSMTRFVTDLHLRLDLIVQTGGENTHSSVFVENLALPOK 317
Qy 238 QVPGPVESHKIAQVKLCKAYQAGEKV--SSFVRLR-----EPLQRAVENNVSRNVN 290
Db 318 NLF---EMRLATVNLIADIKSSLQPKIYAEMMTVRLAEIKPEPALSGAVENETATLQ--E 373
Qy 291 QTRLKRVLSGA-TLPDKL-----RDKLKLKQRRKPPGFLALVKLLRE 332
Db 374 VARLKQELSNAGAVPKQVAPAPSRPATGTVTVRVVDENKQVQSILOEAVENPDLARQNLRL 433
Qy 333 EEW-----BATLGPDRRESLEGLEVAPRPPTGAVPLPASGN-----SFDARPSQGYR 384
Db 434 QNANGEVIESLGGPDKALL-----VGSQPVAANEHHAAILAFESNFNAGOT 478
Qy 385 RRR 387
Db 479 MKR 481

RESULT 15
US-09-252-991A-32259
; Sequence 32259, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32259
; LENGTH: 1201
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32259

Query Match      4.2%; Score 101.5; DB 4; Length 1201;
Best Local Similarity 20.7%; Pred. No. 0.52;
Matches 98; Conservative 58; Mismatches 155; Indels 163; Gaps 20;

Qy 37 ETLQEAACRHLGRY-----RVIGRMF---REENAQAAILLELAQDIDVALLPREI 82
Db 645 ETLQEAQORGLDGDGESISRGGYVWGRHFLVRRSDEAQQGMITARAQELE--ALQERRE 703
Qy 83 PGKGGPWEVIVKPRNSDGEFLNRLNRFLEE-----RRTVSDMNRVLGSDTNCSPA 132
Db 704 P-----LETRVSEGE--EFLAARDEQLEGAEREQVRVQVEGRRHGE----- 746
Qy 133 PRVTISPEFTWTAOTGAAVQPLLEQMLYRELRFVSGNTISITPGALAFDAWLEHTTTEMLQ 192
Db 747 -----LKAQLSAQAQKVEQLVLRRL-----DEEVAELAEQRA 780
Qy 193 MMQVPSGEXRRRLMECLRGPALQV----- 216
Db 781 LEOQSEQLSEARLTIQEALDSWALDTERRETLAERDRLERLIRQDARTHKDHQHLAV 840
Qy 217 -VSLGRASNASITVEECIALAQVQVGFVESHKIAQVKLCKAYQAGEKVSSFVRLPLELL 275
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Db	841	RVGSLKAQHS--TQALERLDQOARL--NERCEQLNL--NLEBGAAPLEELRMKLELL	895
Qy	276	QR--AVENN-----VSRNVNQTRLKRVLSGATLPDKLR-----DKLK	312
Db	896	ERRMAVEDELKQARLALEDADREIREVEKRGQAEQOQSLRGQLEQORLEWQGLVVRK	955
Qy	313	LMQRRKPPGF-----LALVKLFRREEEWEATLGPDPRESLEGLEVAPRPPARITGVGAVP	367
Db	956	ALQQLAEDGVDLHTVLANLPLDASERDWE-----ERLES-----AARIQRLGFIN	1002
Qy	368	LPASGNSFDARPSQGYRRRRGRGH-----RRGGVARAGSGSRKRKHTF	413
Db	1003	LAA-----IEEYQOOSERKRYLDSQNDLAEALETLENVIRKIDRETRNRFKETP	1052

Search completed: August 26, 2005, 16:50:27  
Job time : 36.9126 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 26, 2005, 16:45:49 ; Search time 123.01 Seconds

(without alignments)  
1478.945 Million cell updates/sec

Title: US-10-037-860-13

Perfect score: 2423

Sequence: 1 MPULTLQDWCGRGHLNTRRC.....VSSGNGNWAWDKSHPKSKAK 463

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 segs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
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14: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US10F_PUBCOMB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2423	100.0	463	13	US-10-037-860-13
2	883.5	36.5	452	16	US-10-408-765A-2385
3	836.5	34.5	364	17	US-10-504-329-3
4	818	33.8	333	9	US-09-965-529-7
5	818	33.8	353	10	US-09-969-680A-7
6	818	33.8	353	20	US-11-048-692-7
7	768.5	31.7	351	9	US-09-965-529-1
8	768.5	31.7	351	10	US-09-969-680A-1
9	768.5	31.7	351	10	US-09-969-680A-1
10	768.5	31.7	351	15	US-10-341-434-10
11	768.5	31.7	351	20	US-11-048-692-1

12	768.5	31.7	399	15	US-10-094-749-1978	Sequence 1978, Ap
13	765.5	31.6	329	13	US-10-037-860-4	Sequence 4, Appl
14	765.5	31.6	318	10	US-09-804-014A-40	Sequence 40, Appl
15	742	30.6	321	10	US-09-804-014A-39	Sequence 39, Appl
16	740.5	30.6	312	10	US-09-804-014A-73	Sequence 73, Appl
17	740.5	30.6	312	10	US-09-804-014A-74	Sequence 74, Appl
18	618.5	25.5	283	13	US-10-037-860-11	Sequence 11, Appl
19	462.5	19.1	195	13	US-10-037-860-7	Sequence 7, Appl
20	423.5	17.5	403	15	US-10-094-466-38	Sequence 38, Appl
21	415.5	17.1	402	17	US-10-959-539-26	Sequence 26, Appl
22	384.5	15.9	337	15	US-10-296-115-1208	Sequence 1208, Ap
23	332	13.7	120	10	US-09-804-014A-42	Sequence 42, Appl
24	324	13.4	120	10	US-09-804-014A-41	Sequence 41, Appl
25	323	13.3	149	13	US-10-037-860-9	Sequence 9, Appl
26	322	13.3	204	14	US-10-029-386-33747	Sequence 33747, A
27	270	11.1	116	9	US-09-864-761-34645	Sequence 34645, A
28	191	7.9	538	16	US-10-408-765A-2992	Sequence 2992, Ap
29	158.5	6.5	1322	15	US-10-374-780A-1037	Sequence 1037, Ap
30	156	6.4	1394	16	US-10-437-963-185722	Sequence 185722, Ap
31	156	6.4	1433	15	US-10-374-780A-1040	Sequence 1040, Ap
32	156	6.4	1433	16	US-10-437-963-110685	Sequence 110685, Ap
33	156	6.4	1828	16	US-10-437-963-123225	Sequence 123225, Ap
34	155.5	6.4	1150	16	US-10-437-963-122585	Sequence 122585, Ap
35	155	6.4	584	15	US-10-291-172-355	Sequence 355, Ap
36	155	6.4	584	15	US-10-221-278-355	Sequence 355, Ap
37	154	6.4	1360	16	US-10-437-963-185720	Sequence 185720, Ap
38	154	6.4	2003	16	US-10-437-963-117298	Sequence 117298, Ap
39	152	6.3	1433	15	US-10-374-780A-1035	Sequence 1035, Ap
40	152	6.3	1696	16	US-10-437-963-117296	Sequence 117296, Ap
41	151	6.2	1636	16	US-10-437-963-122665	Sequence 122665, Ap
42	151	6.2	1895	16	US-10-437-963-122632	Sequence 122632, Ap
43	149	6.1	1711	16	US-10-437-963-199076	Sequence 199076, Ap
44	149	6.1	3783	16	US-10-437-963-146318	Sequence 146318, Ap
45	148	6.1	1777	16	US-10-437-963-122620	Sequence 122620, Ap

#### ALIGNMENTS

RESULT 1  
US-10-037-860-13  
; Sequence 13, Application US/10037860  
; Publication No. US20020123114A1  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA  
; TITLE OF INVENTION: ANTIBODIES  
; FILE REFERENCE: 2581.1004-004  
; CURRENT APPLICATION NUMBER: US/10/037,860  
; CURRENT FILING DATE: 2001-01-04  
; PRIOR APPLICATION NUMBER: 09/189,527  
; PRIOR FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 463  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-10-037-860-13

Query Match 100.0%; Score 2423; DB 13; Length 463;  
Best Local Similarity 100.0%; Pred. No. 3e-210;  
Matches 463; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPULTLQDWCGRGHLNTRRCMLILGIPEDCGDEFEETLQACRHLGRVYVIGRMFRREE 60

DB 1 MPULTLQDWCGRGHLNTRRCMLILGIPEDCGDEFEETLQACRHLGRVYVIGRMFRREE 60

QY 61 NQAQILLELAQDIDYALLPREIPGKGPWEIVKPNSDGEFLNRLNLFLEERTVSDM 120

DB 61 NQAQILLELAQDIDYALLPREIPGKGPWEIVKPNSDGEFLNRLNLFLEERTVSDM 120

Qy 121 NRVLGSDTNCASPRVTISPEFWTWAOTLGAAVOPLLQOMLYRELVRVPSGNTISIPGALAF 180  
Db 121 NRVLGSDTNCASPRVTISPEFWTWAOTLGAAVOPLLQOMLYRELVRVPSGNTISIPGALAF 180  
Qy 181 DAWLEHTTEMLQMWQVPEGEKRRRLMECLRGPALQVVSGLRASNASITVEECALAAQQVF 240  
Db 181 DAWLEHTTEMLQMWQVPEGEKRRRLMECLRGPALQVVSGLRASNASITVEECALAAQQVF 240  
Qy 241 GPVESHKIAQVKLCAYQAEAGEKVSSFVLRLEPLLQRAVENNVSRNNVQTLKRVLG 300  
Db 241 GPVESHKIAQVKLCAYQAEAGEKVSSFVLRLEPLLQRAVENNVSRNNVQTLKRVLG 300  
Qy 301 ATLPDKLRDKLKMQRKPPGFALVKLLREEEWEATLGPDRSEGLEVAAPRPARI 360  
Db 301 ATLPDKLRDKLKMQRKPPGFALVKLLREEEWEATLGPDRSEGLEVAAPRPARI 360  
Qy 361 TGVGAVPLPASGNSFDPARPSQGYRRRRGRGQHRRGVVARAGSRGRKRHTFCYSGED 420  
Db 361 TGVGAVPLPASGNSFDPARPSQGYRRRRGRGQHRRGVVARAGSRGRKRHTFCYSGED 420  
Qy 421 GHRVQCINPSNLLLVKQKQAAVESGNGWMDKSHPKSKAK 463  
Db 421 GHRVQCINPSNLLLVKQKQAAVESGNGWMDKSHPKSKAK 463  
RESULT 2  
US-10-408-765A-2385  
; Sequence 2385, Application US/10408765A  
; Publication No. US20040101874A1  
; GENERAL INFORMATION:  
; APPLICANT: Ghosh, Soumitra S.  
; APPLICANT: Fahy, Eoin D.  
; APPLICANT: Zhang, Bing  
; APPLICANT: Gibson, Bradford W.  
; APPLICANT: Taylor, Steven W.  
; APPLICANT: Glenn, Gary M.  
; APPLICANT: Warnock, Dale E.  
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
; FILE REFERENCE: 660088.465  
; CURRENT APPLICATION NUMBER: US/10/408.765A  
; CURRENT FILING DATE: 2003-04-04  
; NUMBER OF SEQ ID NOS: 3077  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2385  
; LENGTH: 452  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-408-765A-2385  
Query Match 36.5%; Score 883.5; DB 16; Length 452;  
Best Local Similarity 42.6%; Pred. No. 7e-71;  
Matches 201; Conservative 75; Mismatches 155; Indels 41; Gaps 10;  
Qy 1 MPLTLQDWCRGEHLNTRCMLILGIPEDCGDEFEETLQEAACHLGRYVRVIGRMFRREE 60  
Db 5 MAULTLEDWCKGMDMDPRKALLIVGIPMESEVEIQTVKAGQPLCAVYVILGMRFERED 64  
Qy 61 NQAAILLELAQDIDYALLPREIPGKGPWEVIVKPRNSDGEFLNRLNRFLEEBERRTVSDM 120  
Db 65 NAKAVFELADVTNYTLLPSHIPKGGGSWEVVKPRNPDPDEFLSRLNYFLKDEGRSMTDV 124  
Qy 121 NRVLGSDTNCASPRVTISPEFWTWAOTLGAAVOPLLQOMLYRELVRVPSGNTISIPGALAF 180  
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Qy 181 DAWLEHTTEMLQMWQVPEGEKRRRLMECLRGPALQVVSGLRASNASITVEECALAAQQVF 240  
Db 180 EDWLQEQTEIMPQVSEVEKRRRLSLRGPALSIMRVLAQNNDISITVSCDLAKQIF 239  
Qy 241 GPVESHKIAQVKLCAYQAEAGEKVSSFVLRLEPLLQRAVENNVSRNNVQTLKRVLG 300

Db 240 GKEDFRASQFRFLQSPKIGKVSFTLLRLBPLLQKAVHKSPLSVSRSTDMIRLKHLLAR 299  
Qy 301 ATLPDKLRDKLKMQRKPPGFALVKLLREEEWEAT---LGPDRSEGLEVAAPRP 356  
Db 300 VAWTPALRGKJELLDOQCGPPNFLEMLKUIRDEEWEATEAVMKVKEKESGGRGASGQ 359  
Qy 357 PARITGVGAVPLPASGNSF-DARPS--QG-----YRRRRGRGQHRRGVVARAGSRGRKR 408  
Db 360 ARAEASVAPQATVQARSFSDSSPQTIQGLPLPVKRR-----LLGSBSTR-- 406  
Qy 409 KRHTFCYSGEDGHRVQCINPSNLLLVKQKQAAVES-GNGWMDKSHPK 459  
Db 407 -----GED-HQATYPKAENQTPGREGPQAAGEELGNEAGAGAMGHPK 448  
RESULT 3  
US-10-504-329-3  
; Sequence 3, Application US/10504329  
; Publication No. US20050106569A1  
; GENERAL INFORMATION:  
; APPLICANT: Evotec NeuroSciences GmbH  
; TITLE OF INVENTION: Diagnostic and therapeutic use of MA onconeural  
; TITLE OF INVENTION: antigens for neurodegenerative diseases  
; FILE REFERENCE: 030475wo ME/BM  
; CURRENT APPLICATION NUMBER: US/10/504,329  
; CURRENT FILING DATE: 2004-08-25  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 364  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-504-329-3  
Query Match 34.5%; Score 836.5; DB 17; Length 364;  
Best Local Similarity 49.7%; Pred. No. 9.2e-67;  
Matches 174; Conservative 63; Mismatches 108; Indels 5; Gaps 3;  
Qy 1 MPLTLQDWCRGEHLNTRCMLILGIPEDCGDEFEETLQEAACHLGRYVRVIGRMFRREE 60  
Db 1 MALALLEDWCIRMSVDEQSKLMTVGIPADFEAEIQEVLTLSLGRVLLGKIFRKQE 60  
Qy 61 NQAAILLELAQDIDYALLPREIPGKGPWEVIVKPRNSDGEFLNRLNRFLEEBERRTVSDM 120  
Db 61 NANAVILLELLEDDTVSAIPSEVQGGVWKVIFKTPNQDTEFLERLNLFLKXEGQTVSGM 120  
Qy 121 NRVLGSDTNCASPRVTISPEFWT--WAOTLGAAVOPLLQOMLYRELVRVSGNTISIPGAL 178  
Db 121 FRALGQGVSPATVPCISPPELLAHLGQAMAHAPQPLL-PMRYRKLURVSGSAVPAPEE 179  
Qy 179 AFDWLEHTTEMLQMWQVPEGEKRRRLMECLRGPALQVVSGLRASNASITVEECALAAQ 238  
Db 180 SEFWLEQATEIVKEHPVTEAEKRWLAESLRGPDLDLHIVQADNPSISVEECLEAFKQ 239  
Qy 239 VFGPVEHSHKIAQVKLCAYQAEAGEKVSSFVLRLEPLLQRAVENNVSRNNVQTLKRVL 298  
Db 240 VFGSLESRRTAQVRYLTKTQEEGEKVSAYVLRLETLRRRAVEKRAIPRIADQVRLEQVM 299  
Qy 299 SGATLPDKLRDKLKMQRKPPGFALVKLLREEEWEATLGPDRSE 348  
Db 300 AGATLNQMLWCRLELKDQPPSPFLELMKLVIREEESEASF--ENESIE 347  
RESULT 4  
US-09-965-529-7  
; Sequence 7, Application US/09965529  
; Publication No. US20020182671A1  
; GENERAL INFORMATION:  
; APPLICANT: LAL, Preeti  
; APPLICANT: YUE, Henry  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: BANDMAN, Olga  
; APPLICANT: BURFORD, Neil

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; LENGTH: 353
; TYPE: PR1
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7

Query Match          33.8%; Score 818; DB 10; Length 353;
Best Local Similarity 49.6%; Pred. No. 4.1e-65;
Matches 173; Conservative 52; Mismatches 113; Indels 10; Gaps 4

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Db 1 MAMTLLEDWCRGMDVNSQRALLVWGI PNCDEAIEETLQAAMPQVS-YRMLGRMFRREE 59

Qy 61 NQAAILLELAQDIDYALLPREIPKGGPGPWEVIVPRNSDGBFLNRLNRFLEERTVSDM 120
Db 60 NAKAALDELGTAVDYAAIPREMPGKGWGVKVLFPKPTSDAEFLERLHLFLAREGTVQDV 119

Qy 121 NRVLGSDTNC SAPRVTISPGFTWQAQTLGAAVQLLEOMLYRELRVFSGNTISIPCALAF 180
Db 120 ARVLGFQNPPTPGCPENPAEMLNV--ILDNVIQPLVESIWYKRLTLFSGRDI PGGEETF 177

Qy 181 DAWLEHTTEMLQWQVPEGEKRRRLMECLRGPALQVWSGLSRASNASITVEECLAALQQVF 240
Db 178 DPMLEHTNEVLEBWQVSDVEKRRRLMESLRGPAADVIRILKSNNPAITTAECLEKALEQVF 237

Qy 241 GPVESHKIAOVKLCCKAYOEAGEKYSSFVLRLEPILQRAVENNVYRRRNVTQLRKRVLSG 300
Db 238 GSVESSRDAQIKFLNTVYQNGEKLUSAVVIRLEPLLQKVVEKGAIDKQNVNQARLEQVING 297

Qy 301 ATLPDKLRDKLKLWKQRKRP-PGFLALVYKLLR-----EEBEWEATL 340
Db 298 ANHSGAIRROLWLTGAGEGAPNLFOLLVOIRBEAEKEEESAEATL 344

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RESULT 6
US-11-048-692-7
; Sequence 7, Application US/11048692
; Publication No. US20050123990A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti.; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil.; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/11/048,692
; CURRENT FILING DATE: 2005-02-02
; PRIORITY APPLICATION NUMBER: US/09/969,680
; PRIORITY FILING DATE: 2001-10-02
; PRIORITY APPLICATION NUMBER: US00/22315
; PRIORITY FILING DATE: 2000-08-14
; PRIORITY APPLICATION NUMBER: 60/149,641
; PRIORITY FILING DATE: 1999-08-17
; PRIORITY APPLICATION NUMBER: 60/164,203
; PRIORITY FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 2483172CD1
US-11-048-692-7

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Query Match 33.8%; Score 818; DB 20; Length 353;  
Best Local Similarity 49.6%; Pred. No. 4.1e-65;  
Matches 172; Conservative 52; Mismatches 113; Indels 10; Gaps 4;

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Qy 1 MPLTLQDWCRCGEHLNTRRCMLILGIPEDCGEDEFETLQACRHLGRYVIGRMFRREE 60
Db 1 MAMTLLEDWCRCGMDVNSQRALLVWGIPVNCDEABIEETLQAMPQVS-YRMUGRMFRREE 59
Qy 61 NQAAILLELAQDIDYALLPREIPGKGGPWEVIVKPRNSDGEFLNRLNRFLEERRTVSDM 120
Db 60 NAKAALLELTGAVDYAALPREMPCKGGVWKVLPKPPTSDAFFLERLHLFLAREGWTVDV 119
Qy 121 NRVLGSDTNCAPRVITSPFWTWAQTLGAQVQPLLEQMLYRELVRVFSGNTISIPGALAF 180
Db 120 ARVLGFQNPPTTPGPEMPAEMLANL--ILDNVIOQLVESIWYKRLTFLSGRDIPOGGETF 177
Qy 181 DAWLEHTTEMLQMQVPEGEKRRRLMECLRGPALQVVGSLRASNASITVBECLAAQOVF 240
Db 178 DPWLEHTNEVLEEWQVSDVEKRRRLMESLGRPADVIRILKSNPALITAECLKALQOVF 237
Qy 241 GPVESHKIAQVKLCKAYQAGEKVSFVLRLEPLLQRAVENNVSRNNVQTRILKRVLSG 300
Db 238 GSVESRDAQIKELNTYQNPGEKLSAVVIRLEPLLQKVVEKGAIDKDNVNAQRLQEVIA 297
Qy 301 ATLPDKLRDCLKMKQRKP-PGFLALVKLLR-----EEEWATL 340
Db 298 ANHSGAIRRQLWLTGAGEGPAPNLFOLLVQIREEEAKEEEEBATL 344

RESULT 7
US-09-965-529-1
; Sequence 1, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1
US-09-965-529-1

Query Match 31.7%; Score 768.5; DB 9; Length 351;
Best Local Similarity 46.6%; Pred. No. 1.2e-60;
Matches 165; Conservative 60; Mismatches 118; Indels 11; Gaps 6;

Qy 1 MPLTLQDWCRCGEHLNTRRCMLILGIPEDCGEDEFETLQACRHLGRYVIGRMFRREE 60
Db 1 MTLLELDWCRCGMDNPRKALLIAGISQCSVAIEEALQAGLAPLGEYLLGEMFRDE 60
Qy 61 NQAAILLELAQDIDYALLPREIPGKGGPWEVIVKPRNSDGEFLNRLNRFLEERRTVSDM 120
Db 60 NRKVALVGLTAETSHALVPEKGIWRVIFKPPDPDNTFLSRLEFLAGEGTMVTEL 120
Qy 121 NRVLGSDTNCAPRVITSPFWT--WAQTLGAQVQPLLEQMLYRELVRVFSGNTISIPGAL 178
Db 121 SRALGHENGLDPEQGMIPFWAPMLAQAL--EALQPALQCLKYKLLRVFSGRESPEEGE 179
Qy 179 AFDAWLEHTTEMLQMQVPEGEKRRRLMECLRGPALQVVGSLRASNASITVBECLAAQ 238
Db 180 EFGKWFHTTQMIKAWQVDPVEKRRLLSRLGPDALDVIRVLKINPLITVDECLQALEE 239
Qy 239 VFGPVESHKIAQVKLCKAYQAGEKVSFVLRLEPLLQRAVENNVSRNNVQTRILKRVL 298
Db 238 NRKVALVGLTAETSHALVPEKGIWRVIFKPPDPDNTFLSRLEFLAGEGTMVTEL 120
Qy 121 NRVLGSDTNCAPRVITSPFWT--WAQTLGAQVQPLLEQMLYRELVRVFSGNTISIPGAL 178
Db 121 SRALGHENGLDPEQGMIPFWAPMLAQAL--EALQPALQCLKYKLLRVFSGRESPEEGE 179
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Qy 179 AFDAWLEHTTEMLQMQVPEGEKRRRLMECLRGPALQVVGSLRASNASITVBECLAAQ 238
Db 180 EFGKWFHTTQMIKAWQVDPVEKRRLLSRLGPDALDVIRVLKINPLITVDECLQALEE 239
Qy 239 VFGPVESHKIAQVKLCKAYQAGEKVSFVLRLEPLLQRAVENNVSRNNVQTRILKRVL 298
Db 240 VFGVTDNPRELQVKYLTQKBEKLSAVVLRLEPLLQKLVQRGATERDAVNAQRLDQVI 299
Qy 299 SGATLPDKLRDCLKMKQRKP-PGFLALVKLLR-----EEEWATLGPDRSLEGG 349
Db 300 AGA-VHKTIRRELNL--PEDGPAPGFLQALLVILKQYEAEEEEALL---QAILLEG 348

RESULT 8
US-09-804-014A-16
; Sequence 16, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vernhet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-804-014A-16

Query Match 31.7%; Score 768.5; DB 10; Length 351;
Best Local Similarity 46.6%; Pred. No. 1.2e-60;
Matches 165; Conservative 60; Mismatches 118; Indels 11; Gaps 6;

Qy 1 MPLTLQDWCRCGEHLNTRRCMLILGIPEDCGEDEFETLQACRHLGRYVIGRMFRREE 60
Db 1 MTLRLLEDWCRCGMDNPRKALLIAGISQCSVAIEEALQAGLAPLGEYLLGEMFRDE 60
Qy 61 NQAAILLELAQDIDYALLPREIPGKGGPWEVIVKPRNSDGEFLNRLNRFLEERRTVSDM 120
Db 61 NRKVALVGLTAETSHALVPEKGIWRVIFKPPDPDNTFLSRLEFLAGEGTMVTEL 120
Qy 121 NRVLGSDTNCAPRVITSPFWT--WAQTLGAQVQPLLEQMLYRELVRVFSGNTISIPGAL 178
Db 121 SRALGHENGLDPEQGMIPFWAPMLAQAL--EALQPALQCLKYKLLRVFSGRESPEEGE 179
Qy 179 AFDAWLEHTTEMLQMQVPEGEKRRRLMECLRGPALQVVGSLRASNASITVBECLAAQ 238
Db 180 EFGKWFHTTQMIKAWQVDPVEKRRLLSRLGPDALDVIRVLKINPLITVDECLQALEE 239
Qy 239 VFGPVESHKIAQVKLCKAYQAGEKVSFVLRLEPLLQRAVENNVSRNNVQTRILKRVL 298
Db 240 VFGVTDNPRELQVKYLTQKBEKLSAVVLRLEPLLQKLVQRGATERDAVNAQRLDQVI 299
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Qy 299 SGATLPDKLRDKLKMKQRKPPGFLALVKLLRE---EEWEATIGDPRSLEG 349  
Db 300 AGA-VHKTIRRELNL-PEDGPAPGFLQLLVLIKDYEAABEEALL---QAILEG 348

RESULT 9  
US-09-969-680A-1  
; Sequence 1, Application US/09969680A  
; Publication No. US2003012469A1  
; GENERAL INFORMATION:  
; APPLICANT: LAL, Preeti; YUE, Henry  
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga  
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda  
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.  
; APPLICANT: PATTERSON, Chandra  
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
; FILE REFERENCE: PF-0731-1 USA  
; CURRENT APPLICATION NUMBER: US/09/969,680A  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US00/22315  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/149,641  
; PRIOR FILING DATE: 1999-08-17  
; PRIOR APPLICATION NUMBER: 60/164,203  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 74  
; SOFTWARE: PERL Program  
; SEQ ID NO 1  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20030124649A1 112301CD1  
US-09-969-680A-1

Query Match 31.7%; Score 768.5; DB 10; Length 351;  
Best Local Similarity 46.6%; Pred. No. 1.2e-60;  
Matches 165; Conservative 60; Mismatches 118; Indels 11; Gaps 6;

Qy 1 MPTLLQDMCRGHEHLNTRCMLLIIGIPEDCGEDFEFTLOEACRHLCGRYRVIGRMPREE 60  
Db 1 MTURLLEDWCRGMDNPRKALLIAGISQSCSVAEIEALQAGLAPLGEYRLLRGNFRDE 60  
Qy 61 NQAAILLELAQDIDYALLPREIPGKGGPWVIVKPRNSDGEFLNRLNRFLEEERTVSDM 120  
Db 61 NRKVALVGLTAETSHALVPKEIPGKGGIWRVIFKPPDPDNTFLSRLEFLAGEGWTVGEL 120  
Qy 121 NRVLGSDTNCSPRVTISPEFWT--WAQTGAAVQPILEQMLYRELRVFSGNTTISIPGAL 178  
Db 121 SRALGHENGSLDPQGMIPENWAPMLAQAL-EALQPALQCLKYKLRVFSGRESPEGEE 179  
Qy 179 AFDNLWHTTMYLQWQVPEGEKRRRLMECLRGALQVSGLRASNASITVEECALAIQ 238  
Db 180 EFGRWPFHTTQMIKAWQVPDVEKERRLLSRLGSPALDVIRVLKINPLITVDECLQALEE 239  
Qy 239 VFGPVESHKIAQVLCCKAYOSAGEKVSFVLRLPQLQRAVNNVNSRRNVNQLRKLVL 298  
Db 240 VFGVTDNPRELQVKLYTTYQDEKLSAYLRLPQLQKLVORGAIERDAVNQARLDQVI 299  
Qy 299 SGATLPDKLRDKLKMKQRKPPGFLALVKLLRE---EEWEATIGDPRSLEG 349  
Db 300 AGA-VHKTIRRELNL-PEDGPAPGFLQLLVLIKDYEAABEEALL---QAILEG 348

RESULT 10  
US-10-341-434-10  
; Sequence 10, Application US/10341434  
; Publication No. US20030215835A1  
; GENERAL INFORMATION:  
; APPLICANT: Origene Technologies  
; TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes  
; FILE REFERENCE: 9U 204 205 R1

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; CURRENT APPLICATION NUMBER: US/10/341,434
; CURRENT FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/348,164
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: US 60/348,119
; PRIOR FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-341-434-10

Query Match          31.7%; Score 768.5; DB 15; Length 351;
Best Local Similarity 46.6%; Pred. No. 1.2e-60;
Matches 165; Conservative 60; Mismatches 118; Indels 11; Gaps 6;

Qy      1  MPTILQDWCGRGHLNTRRCMLILGIPEDCGEDEFETIQEACHLGRYRVIGRMFREF 60
Db      1  MTLRLLEDWCGRGMDMNRKALLIAGISQSCSVAIEEALQAGLAPLGEYRLGLGRMFRDE 60

Qy     61  NQAAILLELAQDIDYALLPREIPIKGGPWEIVKPRNSDCGEFLNRLNRFLEEERRRTVSDM 120
Db     61  NRKVALVGLTAETSHALVPKEIKFGKGIWRVIFKPPDPNTFFLSRLNEFLAGEGWTVEL 120

Qy    121  NRVLGSDYNCAPSARVITISPEFWT--WAQTLGAAVQPLLEQMLYRELKRVFSGNTISIPGAL 178
Db    121  SRALGHENGSLDPEQGMIPENWAPMLAQAL-EALQPALQCLKYKCLRVFSGRESPEFGE 179

Qy    179  AFDAWLEHTTEMLOMQVQPEGEKRRRLMECLRGPALQVSGLRASNASITVEECIALAQ 238
Db    180  EFGRWPFHTTQIKAWQVPDVERRRRLLESRLRGPALDVIRVLKINNPLIITVDECLALEE 239

Qy    239  VFGPVESHKTAOVKLCAYQEAQEKYSSFVLRLEPLLQRAVNNVVSRRNVNOTRLKRVL 298
Db    240  VFGVTNPRELQVKYLTYYQDKSEKSAVYVIRLEPLQKLVQGAIERDAVNQARLDQVI 299

Qy    299  SGATPLDKLRDKLKMQRKPPGFALVKLLRE---EEWEATLGPDRSLEG 349
Db    300  AGA-VHKTIRRELNL-PEDGPAFGFLQLLVLIKDYAEEEEALL---QAILEG 348

RESULT 11
US-11-048-692-1
; Sequence 1, Application US/11048692
; Publication No. US20050123990A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/11/048,692
; CURRENT FILING DATE: 2005-02-02
; PRIOR APPLICATION NUMBER: US/09/969,680
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature

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